

# ALS NEWS

Agriculture and Life Sciences

August 2001



## Vectors of Disease

**In our global economy, insect stowaways travel from continent to continent on airplanes and ships, bringing diseases to foreign lands**

See story on page 1



# ALS NEWS

## Agriculture and Life Sciences

A Publication for Alumni and Friends of the College of Agriculture and Life Sciences at Cornell University/August 2001

### Bearers of Bad Tidings

Three years ago Laura Harrington was going about her daily chores in Mae Sot, a village in northern Thailand, when suddenly she could no longer stand up. Overcome with weakness, she collapsed. Excruciating pain pulsed up her back and down her legs. In that instant, the rather quaint name whispered in anguish throughout the tropics took on an all-too-personal meaning. Harrington knew within seconds that she had break-bone fever.

It was hardly surprising, really, since she had been spending her days catching the very mosquitoes that carry what western scientists call dengue fever. Pandemic around the world, dengue fever is spreading rapidly to places it has never been seen before. Harrington, at the time a graduate student from the University of Massachusetts at Amherst, was training to be a medical entomologist and wanted to know more about these ubiquitous insects.

Worldwide there are thought to be more than 2500 species of mosquitoes, with 150 in the United States. Mosquitoes are one of the most efficient vectors for human pathogens, likely responsible for transmitting more than 100 of them, causing diseases from viral encephalitis to elephantiasis. Malaria, of course, is the illness most associated with mosquitoes, but New Yorkers, in particular, came to associate mosquitoes with West Nile virus when two years ago seven elderly people died of the disease.

Experts in the United States were fairly confident that West Nile virus was primarily transmitted by mosquitoes here because it is transmitted by mosquitoes in the other areas of the world where the virus has occurred.

Harrington, spurred on by her own brush with death from dengue fever (she's had malaria too), finds insect vectors fascinating for the complex role they play in human disease systems. She is a medical entomologist in the college's Department of Entomology.

Medical entomologists use the tools of fields including epidemiology, ecology, evolutionary biology, genetics, parasitology, and arthropod behavior to conquer human disease. (The phylum *Arthropoda* includes more than 17,000 species of bloodsucking insects such as mosquitoes, sand flies, deer flies, lice, fleas, and more than 800 species of ticks.)

Medical entomologists are up against a



DENGUE DETECTION: Harrington, right, collects mosquito larvae in Thailand to study the vectors for dengue fever.

mighty adversary in the mosquito, an insect that needs to consume blood as a source of proteins essential to producing its own offspring. Malaria, for example, a disease once thought nearly conquered,

which has developed resistance to drugs both to prevent and to treat the disease."

Take one of the long-held truths that Harrington has overthrown through her research in Thailand on the dengue fever

*Harrington is trying to discover the mosquito species that transmits the West Nile virus from birds to people. "This is a critical question because when we know which mosquitoes transmit the virus to people, then we can look at where they breed and target control strategies accordingly," she says.*

is coming back with a vengeance.

"A vaccine for malaria is the Holy Grail of tropical medicine," Harrington says. "Many people believe it will never be accomplished because there's so much we don't understand about the immunology and the complexity of the parasite,

vector, the yellow fever mosquito.

"For a long time we thought these mosquitoes fed once every time they laid a batch of eggs—that is once every three days," Harrington says. "But we found that they will feed almost daily on people, so that exponentially increases the potential for disease transmission."

Harrington has a National Institutes of Health grant to continue her work (in collaboration with Thomas Scott and John Edman from the University of California at Davis) on how dengue fever is spread. Since you can't band mosquitoes as you can birds, and tracking them with paint is difficult, Harrington and her colleagues have turned to the same technique of DNA fingerprinting used by the FBI to match up identities.

In her case, she takes cheek swab samples from all human residents in a given area and runs DNA profiles on them. Then she collects mosquitoes and does the same thing with the blood in their abdomens. In this way, she can tell exactly whom they fed on, how old the people were, where they live, and whether they are male or female.

"This provides us with detailed information about the feeding behavior of the mosquito and tells us if certain people are at greater risk of infection than others. It also gives us an idea of how far the mosquitoes move around the community, and it turns out they don't move very far," Harrington says. "The finding supports the hypothesis that people move the virus around as they visit friends and family."

While the risk of contracting West Nile virus is very low—and the chance of severe symptoms is minuscule—not as much is known about the transmission of this disease as one would think.

There are fewer than 20 species of mosquitoes that can carry the virus of the 80 or so in the Northeast, but the exact vector remains unknown.

#### What about the Birds?

West Nile virus is a zoonotic disease—that is, part of the pathogen's life cycle goes through animals other than humans. In the case of West Nile virus, mosquitoes infected with the disease feed on birds and, in doing so, infect them with the virus which continues to live in their bloodstreams. Sometime later, an uninfected mosquito bites the same bird and the mosquito becomes infected. Should it, in turn, bite a person, then the person can become infected.

Although crows are the most conspicuous victims of West Nile virus, the virus is most likely present in all types of birds: residents

and migrants and birds living in all types of habitats. Crows are large and live near people, hence they tend to be found most often, according to Kevin McGowan, curator of Cornell's bird and mammal collections in the Department of Ecology and Evolutionary Biology and one of the world's foremost authorities on crows.

"In the case of most species, some birds will die, but the resistant ones will pass on those genes, and a state of evolutionary equilibrium will eventually be reached where the overall impact will be small," McGowan says. "But if endangered species such as the

bald eagle were hit as hard as crows, they would be in real trouble as a species."

If you find a dead bird and want to report it, contact the National Wildlife Laboratory at USDA Wildlife Services Hotline: 1-866-537-BIRD.

(continued on page 2)



Photo by Nicola Kourouklis

# Message from the Dean

## A Call to Action to Meet College's Challenges

Continue to evolve at a rapid pace, our continued partnership will be ever more important.

### Challenges

During my visits with the college's stakeholders, I have mentioned what I see as the immediate challenges ahead for the college.

- **Funding** continues to be the most critical need. The proposed State University of New York (SUNY) budget, from which we receive a little over 20 percent of our funding, bears mixed news for CALS. The SUNY budget included an increase covering already committed salary improvements, but did not fund anything else. CALS will have to absorb an internal budget cut of nearly \$500,000, the amount our state allocation was reduced. Additionally, the college will need almost \$400,000 to pay for pooled items and \$100,000 to cover inflationary operating costs such as increases for energy and maintenance, library acquisitions, and operating funds for instruction. Combined with university-mandated costs, the CALS base budget will be short between \$1.8 and \$2 million.

- We face a number of **space and facilities** problems, including a large number of college buildings that are aging and substandard. One immediate concern is Stocking Hall, which is woefully out-of-date. SUNY allocated funding for Stocking Hall renovations, but unfortunately required a 60 percent match, putting the project out of reach. To address our space and facility concerns, the state has an economic development fund for which Cornell is eligible. We are hopeful that this fund can be tapped to help some of our building needs. Other renovations and construction will have to come from our own resources.

- The last challenge is **faculty salaries**. Cornell faculty salaries are not competitive with those offered at comparable universities, and statutory faculty salaries are even less competitive than endowed faculty salaries. While Cornell's president and provost have announced an initiative to address this problem, funding for the statutory colleges will have to again come from our own income sources, including state allocations, tuition, and indirect cost recovery. More significantly, we will have to start to raise our own endowment.

### Call to Action

I firmly believe that we will meet these challenges, but we can only accomplish this with the continued support of our stakeholders. So, what can you do to help CALS meet these challenges?

- **Be a CALS Advocate.** The ALS Alumni Association in cooperation with the CALS Public Affairs Office and the University's Government Affairs Office initiated an advocacy group. This group is working to raise the awareness of legislators and other government officials of the importance of the work of the college and the university, and the importance of maintaining the college's fiscal health. To learn more, contact the CALS Public Affairs Office at (607) 255-7651.

- **Make a gift.** There are a variety of giving opportunities for our stakeholders who choose to support the college's needs and priorities. There are also multiple ways to make a gift to the college. You can make a gift through the university's website at <http://www.alumni.cornell.edu/giving/>, you can respond to the fall Cornell Fund mailing and designate your gift to CALS, or you can contact the college's director of development.

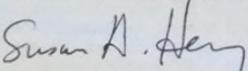
ment, Anne D. Benedict '80, at (607) 255-7833 or by e-mail at [adb7@cornell.edu](mailto:adb7@cornell.edu) for additional information.

- **Volunteer.** Consider offering your time and talents to the college by serving on a committee to organize alumni activities in your local area, serving on a department advisory committee, sharing your experiences with classes, attending local and on campus events, and joining the ALS Alumni Association.

- **Connect with a student.** As a stakeholder, your involvement is needed to excite potential students and help them understand the strength and diversity of our many programs. We need you to encourage high school or two-year institution college students who are at the top of their class, whom you personally know, to consider CALS as they make their future plans. A more formal avenue for connecting with potential students is through the Cornell Alumni Admissions Ambassador Network (CAAAN). Contact the University's Admission Office at (607) 255-5241 to learn how to be involved.

Through the efforts and support of our stakeholders, the College of Agriculture and Life Sciences will continue to be a national leader, maintaining a legacy of attracting and retaining excellent students, faculty, and staff. You, as a stakeholder, are an important partner as we face the challenges ahead.

I welcome your comments and encourage you to let me know what is on your mind. Please write to me at Dean's Dialogue, c/o *ALS News*, 276 Roberts Hall, Ithaca, NY 14853.



Susan A. Henry, Ph.D., the Ronald P. Lynch Dean of Agriculture and Life Sciences

**J**uly marked the conclusion of my first year as dean of the College of Agriculture and Life Sciences. During this past year, I visited with groups in New York City, throughout New York State, and in Florida. I have thoroughly enjoyed the many wonderful opportunities to meet our college's stakeholders, including our alumni, business leaders, legislators, parents, students, and many others. The numerous conversations, the candid questions, and the feedback received from these visits have been tremendously helpful to me.

Given our land-grant mission, I also sought out meetings with New York's agriculture leaders to learn more about the industry. The meetings were an opportunity to assess what further roles the college can play and explore ways to strengthen our ties with this critical group. We have a strong history of building productive relationships between the agricultural community and the college. As agricultural technologies, practices, and policies con-

## Bearers of Bad Tidings (continued from page 1)



The yellow fever mosquito, *Aedes aegypti*, is the vector for dengue fever.

are fairly certain transmits it from birds to birds. This is the species that pesticide control efforts are currently targeting.

Research done in the past shows *Culex p. pipiens* rarely feeds on people. It much prefers birds. So Harrington's work will involve behavioral studies examining the feeding preferences of *Culex p. pipiens* and several other likely species. Using antibody and DNA testing techniques, she will analyze blood from the mosquitoes' abdomens to determine whether it came from a person or other animal.

"This is a critical question because when we know which mosquitoes transmit the virus to people, then we can look at where they breed and target control strategies accordingly," Harrington says. "What's more, we'll know whether they feed during the day or at night and advise the public about the times of highest risk."

In some respects, Harrington sees the West Nile virus as a blessing in disguise because it has raised the awareness of both the public and public health agencies to the possibility of introductions of non-native vectors and exotic diseases. While the chance of contracting West Nile virus is very slight, the next disease may be much more serious.

Furthermore, there are many vector-borne viruses percolating in the environment just below the public's radar screen. Eastern equine encephalitis has what Harrington calls a "silent" transmission cycle from mosquitoes to birds, with humans and horses rarely involved. But when humans do contract the disease, the mortality rate can be as high as 90 percent.

With a global economy come insect stowaways that travel from continent to continent on airplanes and in container ships. This is one reason dengue fever has become a pandemic in South America, the Caribbean, and Asia. Of the four serotypes of the disease, only certain ones were native to particular parts of the world where the local populations developed immunities to them. But when new serotypes are introduced, humans are unprotected.

Too, tourists and business travelers bring in their fair share of diseases. And as

the human population expands, residents and eco-tourists encroach on environments where humans hadn't been before. The spread of Lyme disease is a case in point. In the past, only hikers were at risk. Today, suburbanites working in their own backyards contract Lyme disease.

"We know there are all sorts of diseases out there," Harrington says. "Recently, researchers collected mosquitoes in the Amazon and found numerous unnamed

viruses that could, at some point, be important for human health."

Yet Harrington sees no need to panic, rather to learn the risks and precautions. Then protect yourself. And in the meantime, Harrington and her collaborators in the field of medical entomology are slowly unraveling the complex interconnectedness between the human and animal worlds.

Metta Winter

## Why Was West Nile So Scary?

Should people be particularly worried about contracting West Nile virus? No, says Lois Levitan, program leader for the Environmental Risk Analysis Program in the Center for the Environment. The chances of the virus actually causing serious illness are exceptionally low.

Consider the statistics: In 1999, the first year that West Nile virus was discovered, only 62 people in all of the United States were hospitalized for it and they all lived in the New York City metropolitan area. Seven of them, all quite elderly, died. Last year the virus had spread to 12 states and the District of Columbia yet only 20 people were hospitalized and just two—again elderly people—died.

One in 150 infected people are estimated to have become seriously ill, and about 10 percent of those cases have been fatal in the United States.

"This represents a less than 0.1 percent chance of an infected person contracting a fatal case of West Nile virus," says Levitan, who has gathered the largest compilation of information on West Nile virus available on the Internet. If this is so, why has there been such a dramatic response by the media and public health authorities, some of whom began large-scale spraying of pesticides?

Exotic diseases of unknown origin are frightening. As is aerial spraying of chemicals in populated areas. But within several months it became clear that West Nile wasn't a plague.

As with all insect-borne diseases, you can protect yourself if you know what to do. First, look around your house. Because mosquitoes breed in wet places, eliminate all standing water such as in rain gutters or car tires. Fill puddles, but do not fill natural wetlands. Aerate decorative ponds or stock them with fish, mosquitoes' natural predators. Change water weekly in bird baths. Consider using pesticides only when the disease is suspected or detected in the human population in your area.

Protect yourself by using screens on houses and tents and install yellow "bug" lights outdoors. Avoid places and times of day that mosquitoes bite. If you are in such places, apply insect repellent to skin and clothing and wear long-sleeved pants and shirts. For more details on what you can do to protect yourself and your family go to Levitan's web site at [www.cfe.cornell.edu/risk/WNV](http://www.cfe.cornell.edu/risk/WNV).

The following state and national web sites about West Nile virus are also reliable:

New York State Department of Health web site at [www.health.state.ny.us/nysdoh/westnile/index.htm](http://www.health.state.ny.us/nysdoh/westnile/index.htm)

Centers for Disease Control West Nile web site at [www.cdc.gov/ncidod/dvbid/westnile/index.htm](http://www.cdc.gov/ncidod/dvbid/westnile/index.htm)

You can also call the New York State Health Department's environmental health INFOLINE at 1-800-458-1158.

# This Is Your Brain on Drugs

**Marijuana, LSD, Ecstasy, Alcohol. What exactly do these drugs do to the brain? Students taking the course Drugs and the Brain are learning about the neurobiological effects of street drugs and how addiction and brain damage occur.**

BAD CHEMISTRY: Ron Harris-Warrick warns that ecstasy dosages that cause brain damage are within a factor of two to five of the dosages ecstasy users normally take. This doesn't leave much room for error, and quality control within the illegal drug trade leaves much to be desired.

Photo by Richard Killeen, University Photography

If you could sit in on Ron Harris-Warrick's 300-level neurobiology class, you would become accustomed to hearing a certain refrain over and over again. Harris-Warrick would begin making rapid notations on overhead transparencies of charts and graphs, chemical formulas, and tentacle-like neurons, with the opener: "What actually happens is . . ."

That's why he packs the house.

"It's a very interesting class because he talks about the effects that street drugs like marijuana and LSD have on the brain," explains Brad Lampe, a sophomore biology major from Midland, Michigan, who is quick to add that he doesn't take any of these drugs.

Just the facts, Ma'am, as *Daggett's* Joe Friday used to say, is Harris-Warrick's motto, too.

"I try to keep my opinions out of it as best I can," he says, because "students are under a lot of peer pressure. If they know the facts about what drugs do to their brain and their body, they have a better idea of how to respond when someone makes them an offer."

On a sweet spring morning this April, the auditorium in Stocking Hall was filled with young men and women right at the age when experimentation with drugs is at its peak. By the time they reach their mid-20s they'll be too busy with jobs or a family; drug use falls off rapidly after the age of 25.

One of the more popular illegal drugs among young people (in fact, the only illegal drug whose use is on the rise) is ecstasy. The brain scans Harris-Warrick showed in his March 13 lecture triggered the most brisk notetaking of the semester. That's because it doesn't seem possible to these young adults that a drug whose affects seem so good and so mild could literally damage the brain. Until they see the pictures, that is.

Ecstasy is so popular, Harris-Warrick explains, because the user feels energetic enough to dance all night yet never feels out of control or speeding, even though the drug is a derivative of methamphetamine. Users also report a feeling of overall happiness which extends to a pleasantly heightened empathy for others.

What's the problem with this, students ask? The problem, as Harris-Warrick shows only too graphically, is that ecstasy is a neurotoxin. It kills the terminals of serotonin cells. These terminals extend out from nerve cell bodies like branches on trees. They are responsible for supplying sero-

tonine to the cerebral cortex, which is the part of the brain that is most important for human consciousness. The PET scans inside the living human brains of ecstasy users show the "trees" have been pruned. The branches are gone and with it the serotonin function—most likely for good.

*Tolerance occurs because of what Harris-Warrick calls the principle of homeostasis. "The brain likes to exist in a particular state. If you push it out of that state, by taking a drug for example, it will try to change things to bring itself back to normal."*

tonine to the cerebral cortex, which is the part of the brain that is most important for human consciousness. The PET scans inside the living human brains of ecstasy users show the "trees" have been pruned. The branches are gone and with it the serotonin function—most likely for good.

"Researchers have done studies in monkeys out to seven years after a single large ecstasy trip and the serotonin nerve terminals in the cortex didn't grow back," Harris-Warrick says. "So I think it's actually permanent brain damage." Current studies show taking a lot of ecstasy slightly impairs the ability to learn complex material and slightly increases impulsivity.

"The problem is we don't have any studies about what is going to happen to these people as they age," Harris-Warrick says. "Brain neurons naturally die away over time, so at age 50, with this additional brain damage, are they going to be really struggling?"

Studies, studies studies. It's tough to discount information from a guy who trots out the data from 15 to 20 research studies per lecture.

Take alcohol, for example. By the time Harris-Warrick gets around to the most ubiquitous and costliest recreational drug of all, students have learned about the four major brain neurotransmitter systems—these are the chemical compounds that are released by one nerve cell that cause the next nerve cell to be excited or kept firing. And he has covered cocaine and amphetamines, LSD and other psychedelics, marijuana, ecstasy, heroin, and morphine.

## Addiction Is a Form of Learning

Drug addicts are more akin to laboratory mice than to the stereotyped downtrodden souls lacking the intestinal fortitude to "just say no."

In classical conditioning experiments, neuroscientists can teach rats to blink when a light is turned on by simultaneously blowing a puff of air at their eye. Pretty soon the light alone is enough to cause the blink. The same, too, with drug use. Whenever a former drug user who took a bus to buy his crack sees a bus now, he craves the drug again.

"When the former addict sees this cue, he's automatically going to want the drug because his brain has become hard wired to make these connections," Harris-Warrick explains. "Craving isn't a moral failing as many people think, it's the result of a biological change in the structure of the brain."

This recognition of drug addiction as learned behavior allows neuroscientists to explain phenomena never understood before, such as why heroin addicts who shoot up in unfamiliar surroundings often overdose, even when taking their accustomed amount of the drug.

"During repeated drug use, the environment cues the brain to turn on certain compensatory mechanisms that undo some of the effects of the heroin on the body," Harris-Warrick explains. "The same thing happens with rats. You can train a rat to take a large amount of drug in one chamber, yet inject him with the same amount of drug in another chamber and he'll die."

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# This Is Your Brain on Drugs

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any information at all—a person is said to "blackout." By contrast, alcohol's enhancement of the inhibitory GABA<sub>A</sub> receptor accounts for why a drink makes a person feel less anxious and more loquacious, and with a high enough blood alcohol level, a person weaves and sways, no longer able to walk a straight line.

Alcohol is one of the drugs for which people develop tolerance, allowing them to drink ever greater quantities and yet affect them less than it would the average person. How exactly does tolerance develop? After explaining what happens in the liver (the body tries to break it down and get rid of it metabolically first), Harris-Warrick goes back to the same set of drawings of brain cells.

Tolerance occurs because of what Harris-Warrick calls the principle of homeostasis.

"The brain likes to exist in a particular state," he explains. "If you push it out of that state, by taking a drug for example, it will try to change things to bring itself back to normal."

## Drug Use at Cornell

Two-thirds of Cornell students never get drunk.

75 percent don't (and never have) smoke marijuana.

Fewer than 5 percent use any other illegal drugs.

So whereas in the early days of drinking, the GABA<sub>A</sub> receptors are enhanced, the long-term effect is to decrease the responsiveness of the GABA<sub>A</sub> receptors, reversing alcohol's effect. Such is the case with each target site.

The fact that the brain changes in order to undo the effect of a drug is an important principle of brain function. And learning about the brain itself is Harris-Warrick's second goal for the class.

"In order to understand my lectures, students learn an enormous amount of basic neuroscience because they're keen to understand what the drugs do," he says, confessing that it's rather a way to "trick" them into mastering a lot of material that, in another context, they might find boring indeed.

In the process he debunks troublesome myths, like the dire prediction put forth in public school DARE anti-drug programs: that every drink kills 10,000 nerve cells. Not true. Modest use of alcohol is not toxic to nerve cells in adults. But there is considerable shrinkage in the size of the brain itself as a consequence of long-term heavy drinking.

Why? Nobody knows, so researchers are arguing various points of view, testing out their hypotheses. There's confusion here at the edge of knowledge, and Harris-Warrick wants to take his students there, too.

He expects them to do what they see as impossible: write a research proposal in the form of a National Institutes of Health grant that describes a set of experiments

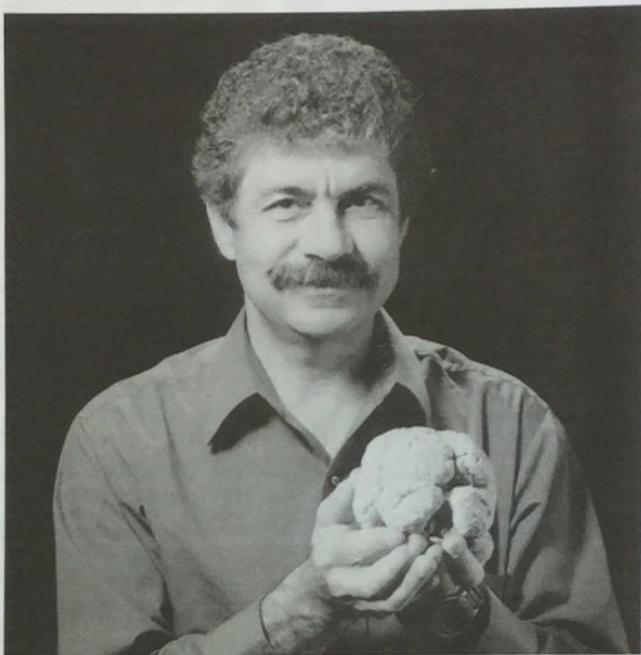


Photo by Richard Kilen, University Photography

"If they know the facts about what drugs do to their brain and their body, they have a better idea of how to respond when someone makes them an offer," Harris-Warrick says of his students.

to solve an unanswered problem related to the neurobiology of a drug. Many students tell him it's the first time anyone has asked them to be creative in biology, to go beyond memorization.

To come up with their topics they have to comb the latest published papers, what Harris-Warrick does all the time just to keep current. He stays on top of the drug scene through questions from students, both in his Cornell classes and Ithaca High School where he gives guest lectures.

"Especially the high school kids will raise their hands and ask questions about all sorts of things I've never heard of, so I go on the Net and into the library to find what's going on with the biology of these substances," he says.

And does what he finds make much of a difference to his students? Brad Lampe says that because Harris-Warrick talks like a biologist, students can apply what they hear to their own behavioral choices.

"I believe they do this, but there's no way to test this out," Harris-Warrick says. "My guess is they make up their own minds while they're explaining to friends what would happen to their brains if they took ecstasy."

Metta Winter

## Sources on Drugs

If you want to know more about the drugs mentioned in this article, Harris-Warrick does not recommend open searches on the Internet.

"You can go in and type a name like ecstasy and get all kinds of information, but you have no idea whether it was written by a 14-year-old who thinks it's the most marvelous thing in the world or someone who distorts the biological evidence for their own political or moral agenda," he says. For reliable information he recommends:

- [www.nida.nih.gov/DrugAbuse.html](http://www.nida.nih.gov/DrugAbuse.html)  
This is the web site of the National Institutes of Drug Abuse.

- *A Primer of Drug Action: A Concise, Nontechnical Guide to the Actions, Uses, and Side Effects of Psychoactive Drugs* by Robert M. Julien, 9th edition published in New York by W.H. Freeman, 2000.

- [www.ncbi.nlm.nih.gov/PubMed/](http://www.ncbi.nlm.nih.gov/PubMed/)  
A source for biologists and other scientists wishing to research the primary scientific literature.

- <http://monitoringthefuture.org/>  
This organization does an annual survey of drug use by 8th, 10th, and 12th graders.

## Alcohol Facts

- Alcohol is amphiphilic (highly soluble in water and reasonably so in fat), therefore it quickly diffuses throughout all the liquid spaces of the body, including the brain.
- Alcohol is the only drug from which withdrawal can actually kill you.
- No animals, including humans, like the taste of alcohol when they first drink it.
- Cirrhosis of the liver is the seventh leading cause of death in the United States.
- Many genes seem to be involved in the predisposition to alcohol addiction. For example, some genetically modified mice will drink, on average, twice as much alcohol as a control animal.
- Between 20 and 50 percent of the sons of alcoholics become alcoholics, whereas only 3 to 5 percent of daughters routinely show that effect—regardless of whether they were raised in the family of the alcoholic parent or not.
- Behavioral therapies for alcohol addiction don't seem to be very effective. Only 20 percent of the people who attend AA are still abstaining one year later.
- Fetal alcohol syndrome occurs in one in 300 births.
- During pregnancy, regularly drinking more than one drink per day or any single binge event (more than five drinks) can lead to a baby with a lower birth weight, lower IQ, and slower progression to developmental milestones such as learning to walk, talk, and read.
- 20 percent of women continue to drink regularly during their pregnancy, constituting the largest preventable cause of birth defects in the United States.
- Caribbean rum with 190 proof have the same alcohol content as laboratory ethanol (95 percent).
- There are 10 million alcoholics in the United States and 7 million more who are problem drinkers (whose work or social life is disrupted by the need to drink).
- 40 percent of all Americans are involved in alcohol-related automobile accidents.
- The number of alcohol-related deaths is 25 times higher than those caused by the sum of deaths due to all illegal drugs combined.
- One to two drinks of alcohol per day is good for your heart because the ethanol raises the good HDL cholesterol compared to the bad LDL cholesterol. Wine provides additional protection because it contains flavonoids such as resveratrol, which is an antioxidant.
- Alcohol is rapidly absorbed from the stomach and upper intestine, rising to peak psychological effect in 30 to 90 minutes and falling at the rate of approximately one drink per hour.
- Women who match men drink per drink will lose because more alcohol enters a woman's bloodstream from the stomach and women will have a higher blood alcohol concentration because they weigh less than men and have a higher concentration of body fat.

## ALS News Wins First Place in National Contest

*ALS News* won first place for college periodicals in the National Agricultural Alumni and Development Association's 2001 competition. The three issues published in the year 2000 were considered by the judges.

Writer Metta Winter, designer Dennis Kulis, editor Elizabeth Bauman '73, photographers from Cornell University Photography, and staff in the ALS Alumni Affairs office share the honor for receiving the award.



# Sculptor of Light

**During a sculpture class, Brian Donovan '78 fell in love with the way light falls on walls, and he has been designing dramatic lamps ever since. Madonna and the movie *Hannibal* have his lighting fixtures—and so does Mann Library.**

**O**ne sunny afternoon in April of 1986, Brian Donovan walked into his adviser's office at Syracuse University and announced: "Leonard, I'm leaving. I've got a great idea. I'm done. See ya." And off he went. Blindly. At the age of 32, Donovan had experienced what he calls the "one moment of clarity" in his life. "For the first time I knew what I was going to do," says a guy who started out as a wildlife biologist working with loggerhead sea turtles in Georgia, then drifted about for years tinkering, doing plumbing, auto mechanics, and carpentry. "Nothing had totally lit me up," he says.

Pun intended. For what Donovan discovered he was meant to do was design lighting fixtures.

The idea had come in a sculpture class. The course was required for the M.F.A. he was pursuing at Syracuse in scene design, more than anything because he could wield a hammer and had wanted to learn to paint. The irony is he quit the program right before the lighting courses started. No matter. Donovan had fallen in love with "the way light works on walls." And he was gone.

It is that very quality of warmth, the way the light flows out through the three-tiered shade, that draws students to sit near Donovan's desk lamps on the personalized study tables in Mann Library.

"The lamps perfectly offset the harshness of the overhead fluorescents," says Kathy Chiang, head of public services at Mann. "When it's gray outside, they make the room feel cozy in a wonderful way."

*"For a while, I made the mistake of trying to figure out what the market wants,"* Donovan says. *"That cerebral approach to design work leaves your creativity in the trash. When you are doing stuff you really love and you think it looks cool, that's probably your best bet."*

Donovan clearly is pleased that when he went to oversee the installation of the lamps, he would often find students sitting only at the tables that already had lamps on them.

"It was very flattering to see they preferred to sit near them, that it was this kind of a 'magnet thing,'" he says.

There's a bit of Cornell in those lamps. Donovan's early fascination with turned metal was spawned in part in an undergrad class in agricultural engineering on lathe work. He uses the turret lathe he bought at a Stimson Hall auction to make the decorative brass knobs. (Also, there's the desk, metal file cabinets, and chair in his office, salvaged from the dumpsters outside the Vet College.)

For the first seven years he was in business, Donovan made lighting fixtures—desk and floor lamps, ceiling pendants, and wall sconces—in the basement of his Brooktondale home. In 1995 he moved his operation down the road a ways to a robin's egg blue Quonset hut overlooking what had once been the pond for a dairy farm. He has one full-time and two part-time employees, hiring as many as five more to meet a crunch.

His line of handmade Art Deco fixtures includes a dozen styles and is sold directly to the trade—architects and interior designers. They, in turn, place them in their clients' homes (Madonna's kitchen in her midtown Manhattan apartment), movie theaters (3,000 wall sconces in all), television and movie sets (*Spin City*, *Another World*, *Hannibal*, and *Inspector Gadget*), corporate offices (ABC radio), and commercial settings (FAO Schwartz).

This spring Donovan handpainted the Southern Hemisphere on half of a 5-foot sandblasted acrylic globe. It was destined for the ceiling of a Embassy Suites restaurant in St. Louis. From the start, the hospitality industry has demanded custom work.

This lamp, called the Sammy D. after Donovan's son, is the style gracing study tables in Mann Library.



Photo by Charles Harrington, University Photography

**LUMINARY:** Donovan works out of his studio in Brooktondale, N.Y., designing and manufacturing lighting fixtures from spun aluminum, stainless steel, brass, and copper.

So when Sunit Chutintaranond and Phoebe Ullberg of Madeline's Restaurant in downtown Ithaca needed a spectacular bar, they commissioned Donovan. The theatrical influence is evident in the design where colors backlight the sandblasted patterns on glass, and waves of satin brass twist out of a wash of colored lights at the crest.

The basic feel of a Donovan lamp—a streamlined Art Deco look made of metal, glass, and acrylic—has changed very little since his grad school days. When asked what he's aiming for, Donovan quoted from his own brochure, which describes the design as "a contemporary interpretation of the machine age aesthetic, where strong, simple geometry and graceful curves mix with a taste of color and honest metal finishes to create a dramatic and unique style."

"For a while I made the mistake of trying to figure out what the market wants," Donovan says. "That cerebral approach to design work leaves your creativity in the trash. When you are doing stuff you really love and you think it looks cool, that's probably your best bet."

As a small business owner, Donovan is at a crossroads: to stay profitable he needs to either get a lot bigger (to cover his overhead and meet the demands of new clients like McDonald's Corporation) or go smaller (back to the basement making just one-of-a-kind pieces on his own).

What's more, he says he doesn't want "lighting guy" carved on his gravestone. While designing and manufacturing light fixtures is, he says, "artistically fulfilling and fun," it's ultimately not his calling.

"The most important things, the things that keep staring me in the face every day are environmental questions on a broad scale," says Donovan, sitting in his office with a copy of the progressive, green-oriented design magazine *Metropolis* on his lap. "The rampant rage of materialism is the primary culprit in destroying the planet and I'm caught up in selling more stuff," he says.

Maybe, he muses, he'll use his current business to bankroll his next line of work, whatever that may be. The catch, Donovan acknowledges, is that he's not a scientist. Rather, like his labor negotiator father, his skills lie in working with people.

"Someday," he says, "I'll draw on that to get back into the environmental business."

Melita Winter



## William Fry Is Senior Associate Dean



**W**illiam E. Fry, professor of plant pathology, is the new senior associate dean in the College of Agriculture and Life Sciences.

Fry succeeds Associate Dean Brian L. Chabot, who returned to teaching and research in the Department of Ecology and Evolutionary Biology.

Fry's new responsibilities include faculty affairs, sponsored research, and management of core research funds. He will also oversee human resources and planning, including facilities.

He earned his doctorate in plant pathology from the college in 1970. Fry joined the Cornell faculty in 1971 as an assistant professor of plant pathology and became an associate professor in 1977 and a professor in 1984. He chaired the plant pathology department from 1981 to 1995.

Fry will continue to conduct research into potato late blight. For nearly his entire professional career, he has been tracking the virulent *Phytophthora infestans*, the fungal-like pathogen that caused the Irish potato famine.

Fry also is a faculty-elected member of the Cornell Board of Trustees.

## Faculty Obituaries

**G**eorge A. Schaefers, professor emeritus of entomology at the agricultural experiment station in Geneva, died March 28, 2001. He was 72.

"Not only did George contribute heavily to the literature on dealing with insects that attack small fruits in New York and the northeastern United States, but he was a major figure on the international agricultural scene," said Wendell Roelofs, chair of the Department of Entomology at the Geneva station.

Schaefers came to the Geneva station in 1958. During his career there, he served as chair of the Department of Entomology from 1983 to 1991. He retired in 1993.

## Dan Decker Named Associate Dean and Director of Research



**D**an Decker is the new associate dean of the College of Agriculture and Life Sciences and director of the Cornell University Agricultural Experiment Station.

He replaces W. Ronnie Coffman, who has returned to the Department of Plant Breeding and who will devote half his time to serving as director of international programs in the college.

Decker is responsible for federal formula funds. He will also be working closely with Cornell Cooperative Extension to improve the integration and coordination of activities between the experiment station and extension.

Decker received a B.S. in 1974, an M.S. in 1976, and a Ph.D. in 1986, all from the College of Agriculture and Life Sciences. From 1976 through 1987, he was a research support specialist, research associate, and senior extension associate in the college. In 1988 he was appointed assistant professor in the Department of Natural Resources. He became an associate professor in 1991 and a professor in 1998. His areas of expertise are the human dimensions of wildlife management, and extension program development and evaluation.

# Dairy Science Students Get to Know the Competition

**A four-month study stint in New Zealand introduces students to a different approach to dairying**



Among the students who studied in New Zealand are (front row, l-r): Jennifer Siira, Alice Green, and Stevie Smith; (back row, l-r) Kristin Myers, Dave Wolf, Ashley Miller, Angela Hemauer, Melissa Bischoff, and Katie Cody.

**W**hy New Zealand? That's the question people asked Angela Hemauer when they learned the Cornell University dairy business management junior from Wisconsin planned to spend four months at Lincoln University near Christ Church.

Why, indeed? For Hemauer and 10 other College of Agriculture and Life Science students who studied in New Zealand beginning in February 2000, the answer is as simple as why anyone travels. They wanted to learn about a different culture and to understand another country's agricultural and food systems.

Not reticent to delve into a new culture,

these student travelers gained a "bigger, broader perspective," says Hemauer.

Most of the students knew they wanted to spend a semester abroad, and the New Zealand student exchange program, which began in 1995, was ideal. It's established, accessible, and affordable. It's also highly recommended by advisers and other students.

"It was an opportunity to live in a foreign country in an educational setting with kids our own age and with students from all over the world," says Stevie Smith from New Hampshire. The students lived in an international dormitory.

"It was an affordable way to immerse ourselves in a culture," Smith adds. As part of the Cornell Abroad program, the students' scholarships and financial aid could be used for their studies in New Zealand. The Cornell University Dairy Fellows program paid the students' airfares.

Not only does the New Zealand culture differ from the students' U.S. experiences, so does the country's educational system and its dairy industry. "Most of the courses at Lincoln University focused on practical skills," says Dave Wolf, a student from New York. The courses offered farm tours, and during their two-week spring break, the students visited dairies.

"It was neat to see a lower-cost production structure," says Jennifer Siira from Minnesota about New Zealand's pasture-based, low-cost, seasonal dairy system.

Alice Green from Kentucky added to her New Zealand experience by working on a 600-cow dairy while in the country. "It gives a broader perspective to see dairying done in a different and profitable way," she says. "It was educational for all of us to see how New Zealand's dairy industry is competitive on a global scale."

Hemauer adds, "They use their resources efficiently." The agricultural industry capitalizes on what it considers its environmentally friendly practices by using that as a marketing tool.

Much of New Zealand's dairy industry is seasonal, meaning more milk is produced during the spring through fall seasons. "It was interesting to see how the dairy industry handles seasonal production," says Kristin Myers from Maryland. Producing more value-added dairy products is one mechanism to accommodate

fluctuations in the supply during the year.

New Zealand, considered one of the world's lowest-cost milk producers, is a major exporter of dairy products.

Gaining an understanding of another culture and other agricultural production systems is only half the picture when students travel abroad. They also discover, sometimes to their amazement, what people in foreign countries think of the United States and its agricultural system.

Not everyone views the U.S. dairy industry as ideal. "They think we're crazy with our cost and price structure for dairy businesses," Wolf says.

For Katie Cody from New York, studying abroad seemed pointless initially. But after her four months in New Zealand, she admits, "This was the best decision I've ever made. I returned a lot more focused. It helped me home in on what I want to do—get an MBA and own my own business—by making me get out of my comfort zone and look at things such as my home farm differently than before, question where I'm going, and evaluate that."

Professor David Galton concurs. "Students come back to Cornell more mature and focused," says the animal science professor and director of the Dairy Fellows program.

Students interested in the dairy industry and the Dairy Fellows program can take advantage of the New Zealand study program. To learn more, contact Professor Galton at 272 Morrison Hall.

Eleanor Jacobs

# Pet Food: Too Much of a Good Thing?

**Foods for cats and dogs now include therapeutic diets for post-operative recovery, heart disease, and even cancer. These are in addition to the formulas for kittens and puppies, geriatric pets, and overweight animals. Do Fluffy and Fido need these special dinners?**

**U**nless there is an infant in your life, it's pretty easy to miss the pet food section of the grocery store these days. But pet food? Not a chance.

Conscienous comparative shopping is the key to maintaining good nutrition for your cat and dog, says professor of animal science Skip Hintz MS '61, PhD '64. But just look at the options!

Take cats. Stroll down the pet food aisle and you'll find wet and dry foods flavored with fish, lamb, and chicken. But it doesn't stop there. If your cat has hairballs, you can buy "hairball formula." Then there's "tartar control" for its teeth and "urinary tract health" for its bladder.

While one popular Ithaca supermarket stocked twice as much cat food as baby food, it devoted four times the space to dinner for Fido.

The dog food industry has come a long way since the days of tea biscuits. According to legend, commercial dog food originated in Victorian England, the brainchild of tea biscuit manufacturers with a lot of broken biscuits on their hands. Why not put them up in tins and sell them to the dog-loving public, they reasoned. A new industry was born.

Feeding the family dog more than table scraps became more popular in the United States thanks to Jim Corbin. Corbin was a nutritionist for Ralston Purina Company, which had been founded in 1893 to make feed for horses and mules. Corbin took the same principle used in making cheese puff snacks and puffed rice cereal and applied it to the meal mixes the company was selling, not altogether successfully, to dog owners. This extruded feed was made by combining the meal mix with steam and forcing it through a die. The lighter and crunchier product packed a lot more dog appeal.

Hintz says that in the last 60 years, manufacturers have developed niche products for just about every situation. The first was puppy food, then food for geriatric dogs, and now weight loss diets (with tactful names like "less active formula").

As Hintz points out, the number one problem in pet nutrition today is obesity.

"The availability of convenient, palatable feeds and owners with incomes sufficient to afford them have made it very easy to overfeed dogs," he says. Too, advances in veterinary medicine have increased the life expectancies of pets.



Advances in veterinary research also spawned the next development in pet nutrition: prescription formulas tailored to specific medical conditions. The idea came from Mark L. Morris, D.V.M., a 1928 graduate of Cornell's College of Veterinary Medicine. Morris developed dietary treatments for clients in his veterinary practice back in the 1930s, preparing them in the family kitchen. By 1948 demand from veterinarians prompted him to hand over production to a commercial manufacturer.

The first prescription diet that Morris found helpful was one he had concocted for a seeing-eye dog named Buddy, who was suffering from kidney disease. Now more than a dozen so called "therapeutic" diets for cats and dogs can be purchased through veterinarians for conditions ranging from post-operative recovery and developmental growth disorders to heart disease and even cancer.

needs just like there are recommended daily allowances for people. These include standards for protein, fat, fat-soluble vitamins, water-soluble vitamins, and mineral content. The minerals alone number 13 and the appropriate quality protein has components including valine, arginine, and other nutrients with unfamiliar names.

"Most of us in the nutritional establishment feel it's very difficult to make a balanced diet at home," Hintz says. "You'll find all kinds of recipes on the Internet, but if you read them carefully, they are often lacking in something, typically calcium."

Remember that back in the days of table scraps, dogs didn't live all that long. Those diets, which are high in fat and empty calories and low in vitamins and minerals, would be considered harmful to dogs today.

Hintz wants to set the record straight when it comes to some of the information

*Cats are true carnivores. They have several unique nutrient requirements—some because of a lack of certain enzymes. So if you feed dog food to a cat for a significant period of time, it may develop nutritional deficiencies that result in blindness, weight loss, and eventually death.*



Skip Hintz

"There's no question that these can be very beneficial to animals dealing with certain kinds of conditions," Hintz says. "If the kidneys aren't functioning, you don't want your pet to eat a lot of nitrogen because it causes the kidneys to work harder."

Everyone knows about canned and dry food, but frozen cuts of meat are also available. People who own sled dogs can even get the food freeze-dried so it won't weigh so much.

Cats are true carnivores. They have several unique nutrient requirements—some because of a lack of certain enzymes. So if you feed dog food to a cat for a significant period of time, it may develop nutritional deficiencies that result in blindness, weight loss, and eventually death.

The World Wide Web has fostered a resurgence of interest in made-at-home pet foods. Hintz, who has taught courses in cat and dog nutrition for 25 years, says people can make pet foods at home, but it's a pain. And tricky.

There are scientifically determined profiles of cat and dog nutritional

tion on the make-at-home web sites.

For instance, some maintain that commercial dog food is made from grinding up dead cats and dogs.

"There is absolutely no evidence of this," he says. What's more, he adds, neither is the accusation true that diseased or poorly cared for animals end up in Fido's bowl. Rather, cat and dog food is made from grains and meat meals, all "wholesome stuff." Whether premium—which is higher in protein, fat, and calories than conventional food—is actually more healthful is still a matter of debate at veterinary nutrition conventions.

But overall, Hintz says, "Just look at the record. Dogs and cats are healthier today than ever before."

One caution. Beware of all "generic" pet foods. The nutritional analysis on the label might look the same as on a name-brand but that doesn't mean that the content really is. Cats, for example, require a diet that is 26 percent protein. If that comes from inferior quality sources, the percentage may be the same but the animal might not be getting some nutrients, such as amino acids, that it needs.

And, of course, when in doubt about which kind of food to pull off the shelves, ask your veterinarian, not a guru on the Net.

Metta Winter



## Beware of Chocolate

**C**hocolate is toxic to dogs. It contains a compound called theobromine, which, if eaten in sufficient quantities, can be lethal. One piece of chocolate cake won't kill your dog, but the whole cake—or worse yet, a bar of baker's chocolate—just might. So keep chocolate in the cupboard, not on the counter top!



# ALUMNI NOTES

## 1930s

**Wilbur F. Pease** '31 of Wappinger Falls, N.Y., celebrated his 92nd birthday in October. He writes that he's "not that in body and far from it in mind and spirit."



## 1940s

**James Lewis Kraker** '42 of Gouverneur, N.Y., spends half the year in New York State and the other half in New Smyrna Beach, Fla.

**William Seymour** '46 of Hillsdale, N.Y., and his wife, Helen, spent the winter in South Carolina. They enjoyed a recent trip to Colorado, visiting the Air Force Academy and Pikes Peak. He is still a hobby bee-keeper and has a dozen hives.

**William J. O'Brien** '48 of East Aurora, N.Y., is still a radiological consultant. His son Joseph is completing a PhD in biology after spending three years in Costa Rica.

**John M. Sterling** '48 of Utica, N.Y., works for American Express Financial Advisors and is chairman of the Town of Schuyler Planning Board in Herkimer County. He has a summer home in Waddington, N.Y., and spends time at Indian Harbour Beach, Fla., in the winter.

## 1950s

**George H. Bayer** BS '50, MS '52, PhD '65 of Ithaca, N.Y., is a pesticide information update consultant for P & C Press; his office partner is Stewart Underwood (Hotel '43).

**George A. Johannessen**, PhD '59, of Danville, Calif., is director emeritus of the California Tomato Research Institute and was an associate professor of vegetable crops



### Two International Meetings Dedicated to Cornell Alumus



In memory of George P. Georgiou '52, MS '53, this year's International Scientific Meeting Resistance 2001 was dedicated in his honor. In addition, the Entomological Society of America will hold a symposium in his honor at their meeting in San Diego. Georgiou was widely recognized for his studies on insecticide resistance and on resistance management strategies, a field he pioneered.

Georgiou received his BS and MS degrees in entomology at Cornell and was a member of Alpha Zeta Fraternity. He earned his PhD at U.C. Berkeley. Georgiou joined the faculty at the University of California, Riverside in 1960, became a full professor in 1969, and retired as professor emeritus in 1995. He was an internationally renowned scientist who won many awards and who trained many of the next generation of scientists working on resistance. One of Georgiou's students, Professor Jeff Scott, is a faculty member in the Department of Entomology in CALS.

According to Georgiou's wife, Lois, "he fell asleep in the Lord" at his home in Riverside, California on November 6, 2000.

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law firm practicing trademark and copyright law. She has two children.

**Marcia D. Crayon** '83 of Laurelton, N.Y., is a teacher, photographer, and musician. She is married to Alvin Williams and has one daughter, Ashley (14). Crayon completed her master's at Queens College in 1995.

**Steven D. Karcher** '83 of Essex Junction, Vt., is vice president of finance for VSAC (Vermont Student Assistance Corporation), a public nonprofit agency that helps Vermont residents pay for secondary school. The VSAC also helps low-income individuals save for higher education by providing matching funds to those who enroll in the Vermont Higher Education Savings Plan.

**Garry P. Nolan** '83 of Palo Alto, Calif., is an associate professor of molecular pharmacology at the Stanford University School of Medicine. He is co-founder of Rigel, Inc., a functional genomics company, and a member of the scientific/educational advisory board for GenEd, providing e-learning materials for life science professionals.

**Andrew A. Carmen** '84 of San Diego, Calif., is a senior scientist in the bioinformatics group at the R.W. Johnson Pharmaceutical Research Institute, and is married to Jeanette.

**Catharine R. Fitzsimmons** '84 of Windsor Heights, Iowa, and her husband, Sean, welcomed their third child, Kathleen Shirley, in May 2000.

**David A. Kramer** '84 of Overland Park, Kan., is an associate director of Quintiles, Inc. He was married in 1995, has one child, and is expecting another.

**Tracey L. Austin** '85 of Ithaca, N.Y., is a regional director for Verizon Wireless and is married to Bill, head coach of men's and women's tennis at Ithaca College. Their daughter, Jill, was born on August 12, 2000.

**Rissa M. Mish** BS '85, JD '88 of Ithaca, N.Y., is director of alumni relations at Cornell Law School.

**Pamela S. Marten** BS '87, MS '90 of Binghamton, N.Y., was promoted to senior computer programmer/analyst for the New York State Division of Disability Determinations.

**Lawrence B. Smart** '87 of Tully, N.Y., is an assistant professor at the SUNY College of Environmental Science and Forestry. He has one daughter, Stephanie (2), with his wife, Christine Smart, a PhD research associate in the Department of Plant Pathology at ESF.

**Ann M. Subik** '87 of Johnstown, N.Y., is an appraiser with First Pioneer Farm Credit in Cobleskill, N.Y. She is married to Michael Blackwood and they have one son, Jacob.

**Kelly J. Brown** BS '88, MBA '92 of Cincinnati, Ohio, is a marketing director for Procter & Gamble and married Tim Brown, a lawyer, on May 13, 2000. There were 23 Cornellians at the reception, including her parents, George C. Smith BS '56, MS '57 and Grace Young Smith BS '57. Brown is the president of CACO (Cornell Association of Class Officers).

**Dr. Karen G. Gundrum** '88 of Ocean Isle, N.C., opened Ocean Isle Veterinary Hospital on December 15, 2000, and married David R. Gundrum, a restaurant owner and building contractor, on April 10, 1999.

**Arlene A. Hudson** '88 of Milton, Mass., is a program coordinator for Fidelity Portfolio Advisory Services in Boston. She has founded several mentoring programs in Harlem, N.Y., and done missionary work in the Caribbean and in Hong Kong.

**Constantine J. Kartsonas** '88 of Pittsburgh, Pa., is vice president and portfolio manager at Federated Investors, Inc., one of the nation's largest investment management companies, and is on the management team for the Federated Large Cap Tech Fund.

**Margaret G. Meloy** '88 of Ithaca, N.Y., is an assistant professor of marketing in the Department of Applied Economics and Management at Cornell.

**Leo J. Rehman** '88 of Manhattan Beach, Calif., worked as a sideline reporter for the XFL, has covered the 2001 Gator Bowl for NBC, and hosted ESPN's Fitness Club. Rehman played football with the Miami Dolphins for one year and appeared on the show American Gladiators as Hawk. He holds an MBA in finance and economics from UCLA and is working toward his PhD in business economics.

**Nancy J. Richards** '88 of Trumansburg, N.Y., is a freelance writer and a full-time mom. She hopes to start a farmstead specialty cheese business at her parents' dairy within the next year.

**Jonathan X. Di Cesare** '89 of Cobleskill, N.Y., owns the Ryder House Kitchen, specializing in gourmet dessert cakes. He and his wife, Caroline, have been married for seven years and have two children: Jonathan (4) and Iscay (2). Di Cesare earned his MBA in finance from Rice University in Houston, Texas.

**Donna M. Moore** BS '89, MAT '93 of Cobleskill, N.Y., is coordinator of agricultural education outreach in Cornell's Department of Education. She and her husband, Timothy, a master's student in the same department, have three children: Mackenzie (8), Nicholas (5), and Elizabeth (3).

**Kimberley M. Thompson** '89 of Cambridge, Ont., graduated from law school in May 2000.

## 1990s

**Dr. John J. Lucia** '90 of Fairport, N.Y., is a dentist in private practice in Penfield, N.Y.

**Mishu A. Mukherjee** '90 of Cambridge, Mass., cohosts *Atmospheres*, a weekly show on the Weather Channel, as Mish Michaels. She was recently elected to the President's Council of Cornell Women.

**Catherine G. Schenck-Yglesias** '90 of Baltimore, Md., is an evaluation adviser of information systems at JHU/PIEGO, working on health programs for

developing nations and applying information technology to public health improvements.

**Karen A. Baase BS '91, MPS '00** of Hamilton, N.Y., is an agricultural program leader with Cornell Cooperative Extension of Madison County. She completed her MPS in community and rural development at Cornell University.

**Ron Deniston-Keller** '91 of Byron, N.Y., is co-owner of Den-Kel Jerseys with her husband. They received the "Young Jersey Breeder" award from the American Jersey Cattle Association in 1999.

**Wei-Mei (Amy) Chen Wang** '91 of Marietta, Ga., works in product development for the North America New Products Innovation Group and has been married to Vincent Wang (Eng. '90) since 1995.

**Michael D. Wolfe** '91 of Richfield Springs, N.Y., owns Oval Top Holsteins. He serves on the Otsego County 4-H Dairy Advisory Committee and is current president of the Otsego, Herkimer, and Montgomery Senior Holstein Club.

**Elizabeth P. Wood BS '91, MAT '93 of Lynn, Mass.**, is a PhD student in biology at Boston University.

**Bara L. Mintz** '92 of Restierster, Md., is married and is known as Kara Hollander.

**Iris Saxer** '92 of Lander, Wyo., does research on penguins in Antarctica.

**Andrew J. Wormuth** '92 of Elba, N.Y., manages the Agway TSFP Heifer Farm with his wife, Jeanne Collier Wormuth '92.

**Jeffrey K. Chin** '93 of New York City, is a network engineer with Greenwich Technology Partners and married Susan Ebel October 2000.

**Debra Rine Garcia** '93 of Marlton, N.J., is a science teacher and coaches soccer and basketball for the Pennsauken School District. She married Jon Garcia, a graduate of the U.S. Naval Academy and a naval lieutenant, in September 1995.

**Thomas C. Hughes** '93 of Rocky Point, N.Y., is the senior fisheries technician for the New York State Department of Environmental Conservation, Bureau of Fisheries Freshwater Unit. He plans to complete his MS in aquatic ecology from SUNY Brockport in 2001.

**Wendi Lynn** '93 of Fayetteville, N.C., is a chemical officer in the 82nd Airborne Division, the rapid deployment division that skydives regularly basis.

**Jonathan S. Shair** '93 of Englewood, Colo., works as vice president of program scheduling and planning for Starz Encore Group LLC, the largest provider of premium movie channels in the United States.

**Dr. Cesar Tello** BS '93, DVM '97 of Jackson Heights, N.Y., opened Noah's Ark Pet Clinic in February 2000.

**Kevin W. Wells** '93 of Washington, D.C., is an MA candidate in international affairs and Korean studies through a dual degree program offered at American University and Korea University.

**Jeffrey E. Woodring** '93 of Chicago, Ill., is trading for Goldman Sachs in Hong Kong.

**Christina J. McManus** '94 of Morgantown, W.Va., is a post-doctoral scholar in the department of physiology at West Virginia University. She completed her PhD in equine reproductive physiology at the University of Kentucky.

**Jason R. Whitney** '94 of New York City, works as a senior consultant at Rosetta Marketing Strategies in Princeton, N.J. He married Dr. Julie Sherman, a pediatric resident at Jacobi Medical Center in the Bronx, on March 17, 2001, in Baltimore, Md.

**Stephen D. Ebbs** MS '95, PhD '97 of Carbondale, Ill., is an assistant professor of plant biology at Southern Illinois University at Carbondale. His research focuses on a plant known as Alpine penncress and how it stores toxins and minerals from the soil. Ebbs' team hopes to use this information to make crops such as corn and soybeans more nutritious and to help reduce soil contamination.

**Diana M. Harris** PhD '95 of Westlake Village, Calif., works at the UCLA Center for Human Nutrition and welcomed a daughter Jenna Marie, on November 9, 1998.

**Gregory K. Heilmann** '95 of San Leandro, Calif., was married in Palos Verdes, Calif., on December 16, 2000.

**Dr. Lynn L. Hickey** '95 of Clifton Park, N.Y., is a second-year resident in a combined internal medicine-pediatrics program at Albany Medical Center.

**Dr. Mark G. Huber** BS '95, DVM '99 of Penn Yan, N.Y., is employed by East View Veterinary Clinic and is engaged to Terri McDaniel.

**Valerie A. Hunter** '95 of Tucson, Ariz., was married on January 15, 2001, and now is known as Valerie Hunter Teeter.

**Michele C. Huresky** '95 of Greenbrook, N.J., works at the law firm Spector and Ehrenworth and is the writer and editor of the New England Jury Verdict Review, a monthly publication that summarizes and analyzes jury verdicts. She has two children: Matthew (2) and Allison (1).

**Ella Lynch** '95 of Baltimore, M.D., is a nursing student at Johns Hopkins University.

**Rumi Shammin** MS '95 of Dhaka, Bangladesh, is a lecturer of environmental policy and management at North South University and begins doctoral studies this fall.

**Dana Karash** '96 of Somerville, Mass., is a nursing student at Massachusetts General.



## Pamkowski Is New President of ALS Alumni Association



**P**eter Pamkowski '74 of Schenectady, N.Y., was elected president of the ALS Alumni Association at its annual board of directors reorganization meeting on June 9, 2001. He replaces Geoff Yates 'MS 77 of Chazy, N.Y. Pamkowski served as vice president for 2000-2001 and as a district director, representing District 7 (Albany, Rensselaer, and Schenectady counties). He has also chaired the association's Planning and Awards Committees. Additionally for Cornell, Pamkowski is a volunteer for the Cornell Fund Phonathon and is a graduate of LEAD New York (Empire State Food and Agricultural Leadership Institute).

Pamkowski also serves on the Agricultural Business Advisory Committee for SUNY Cobleskill and has been a member of the board for the Juvenile Diabetes Research Foundation International's northeastern chapter in Albany, N.Y. He is the manager for the Farm Products Dealer Licensing program for the New York State Department of Agriculture and Markets in Albany. He currently serves as the department's liaison with the New York State Agricultural Society and is instrumental in helping the society plan its annual agricultural forum. Pamkowski and his wife, Mary, have two daughters, Amy and Julie.



**Karin F. Klapper** '96 of Brooklyn, N.Y., is a lawyer with Fried, Frank, Harris, Shriver, and Jacobson, after earning her JD from the University of Michigan Law School in 2000.

**Linda L. Scheu** '96 of Tucson, Ariz., is pursuing her MS in agricultural economics at the University of Arizona after completing two years in the Peace Corps and a year with the Crisis Corps.

**Pamela L. Sloan** '96 of Rochester, N.Y., is an internal medicine resident at Strong Memorial Hospital in Rochester, N.Y., and married **Dean Discenza** BS '96, (ME Civ Eng. '99), in May 2000.

**Briget E. Doyle** '97 of Hoboken, N.J., works for Accenture in the resources group.

**Rachel B. Gardner** '97 of Ithaca, N.Y., graduated from Cornell's College of Veterinary Medicine in May 2001.

**Brielle Vastola Rosa** '97 of Ithaca, N.Y., is a veterinary student at Cornell and teaches for Cornell Outdoor Education.

**Michael H. Tunick** '97 of East Islip, N.Y., is in his second year at Lake Erie College of Osteopathic Medicine.

**Deena F. Bollinger** BS '98, (MIT '99), of New City, N.Y., teaches regents earth science to eighth graders at South Orangetown Middle School, and recently contributed several pages to a Glencoe Publishing textbook.

**James K. Farry** '98 of Syracuse, N.Y., earned an MS in laboratory animal science from MCP Hahnemann University and is completing his first year at SUNY Upstate Medical University.

**Charles L. Matheus** '98 currently resides in Flagstaff, Ariz.

**Walter L. Renfree** '98 of Evanston, Ill., works for E-Loyalty, a consulting firm in Chicago.

**Sarah E. Brown** '99 of Syracuse, N.Y., is a third-year veterinary student at Ross University.

**Jena L. Ferrarese** '99 of Estes Park, Colo., works at Rocky Mountain National Park and is "having an absolute ball!"

**Jason A. Gardy** '99 of Lexington, Va., is a network and computing systems analyst at Sigma Nu Fraternity headquarters. On November 18, 2000, in Roanoke, Va., he married **Laura B. Walman** '98, a third-year student at Washington and Lee University School of Law.

**Maria-Ricchetta C. Harris** '99 of Starkville, Miss., is a first-year veterinary student at Mississippi State University College of Veterinary Medicine.

**Kate Hester MAT '99** of Somerville, Mass., is a high school biology teacher in Belmont, Mass.

**Abbe A. Miller** '99 of Athens, N.Y., completed her master's degree in biodiversity, conservation, and policy at SUNY Albany this May.

**Anthony O. Okobi** '99 of Cambridge, Mass., is a graduate student in the Harvard-MIT Division of Health Sciences and Technology.

**Samuel Rohalna** '99 of Hialeah, Fla., is a biomedical engineering graduate student at Florida International University.

**Isabelle Schlupe** '99 of Ames, Iowa, is a PhD candidate in economics at Iowa State University.

**Anne C. Trawinski** '99 of Baltimore, Md., is an investigative assistant in the Office of Investigations, U.S. Customs Service.

## 2000s

**Janee O. Carr** '00 of Clearfield, Pa., is a graduate student at Rutgers University.

**Andrea Caruso** '00 of Olean, N.Y., is an RN in the intensive care unit at Olean General Hospital, and has three sons under the age of seven. She completed her BS online and is now pursuing a master's in education.

**Rose H. Dakin** '00 of San Francisco, Calif., is working as an energy analyst for Energetics, Inc., in Washington, D.C.

**Jennifer D. Dayton** '00 of Norman, Okla., is an MS candidate in meteorology at the University of Oklahoma.

**Dena Zigun** '00 of Chicago, Ill., works for Diamond Technology Partners, a digital strategy consulting firm.



Natalie J. Wolleser '03  
student writer

The drawings of the kitchen appliances for each decade were done by Ithaca artist Jim Houghton.

# Outstanding Alumni Awards 2001



**J. Thomas Clark '63, MBA '64** is president and founding partner of Dublin Clark & Company, Inc., a private investment firm in Greenwich, Conn. He is currently chairman of two Dublin Clark companies: Johnstown Wire Technologies, Inc. and Precision Specialty Metals. Clark, along with his wife, Nancy '62 HE, MEd '64, co-own Old Chatham Sheepherding Company, which is the largest sheep dairy in America, consisting of 1,200 sheep and is located on 600 acres in Columbia County, N.Y.

A Cornell University trustee fellow and former alumni-elected member of the Board of Trustees, Clark serves on the board's Executive Committee, the Investment Committee, and the Buildings and Properties Committee. He is co-chair of the Committee on Alumni Affairs and Development and the Development Steering Subcommittee. He served as chair of the Lake Source Cooling Project Subcommittee. A past president of the Class of '63, Clark served as Reunion chair for his 15th and 25th Reunions. He played a significant role in the founding of the Entrepreneurship and Personal Enterprise Program and served on its advisory council. Mr. and Mrs. Clark have co-chaired the National Tower Club Committee and in 1993 were recognized as Foremost Benefactors of Cornell. They established the J. Thomas Clark Professorship of Entrepreneurship and Personal Enterprise and the J. Thomas and Nancy W. Clark Dean's Fund for the College of Agriculture and Life Sciences. The Clarks have made commitments in support of the Associate Dean of Students and Greek Life, the Frank and Rosa Rhodes Scholarship, the EPE Partnership Program, the Sage Hall Renovation Project, and participated in the Scholarship Challenge Campaign by establishing the J. Thomas and Nancy Clark Scholarship Fund.

Clark serves on the boards of the Old Chatham Hunt Club, Shaker Museum and Library, and the Columbia Festival Orchestra. The Clarks have three children: Gregory '89, Meredith Clark Shachoy '91, and Megan Clark '97.



**Glenn T. Dallas '58** retired in 1996 as senior vice-president of ADT Security Services Inc., and division president of ADT Mid-Atlantic. ADT is the leading international commercial and residential security services company. Dallas was with ADT Security Services for 35 years, serving as vice president; regional general manager; overseeing seven middle-Atlantic states; district general manager, Mid-West; and district sales manager, New England.

Over the years, Dallas has served the college and Cornell in many capacities. In the early 'rebuilding' years of the ALS Alumni Association, Dallas was district director for the mid-Atlantic region. He was instrumental in strengthening the role of district directors and the board itself. Dallas helped shape the largest and most active dues-paying college of agriculture and life sciences alumni association in the country with over 6,000 members. Dallas then chaired the ALS Annual Gifts Committee; was regional campaign chair for the Cornell Campaign, and vice-chair for the college's \$95 million five-year campaign, which concluded at \$120 million. Dallas has also served as a member of the Cornell University Council. For the Class of '58, he and his wife, Maddi (Madolyn McAdams Dallas '58 ARTS), have co-chaired the 25th, 30th, 35th, 40th, and 45th (2003) Reunion campaigns. He was also a member of the Mann Library Campaign Committee and is a Cornell Plantations Sponsor. He has been tireless in encouraging alumni's involvement with the ALS Alumni Association and as donors.

Dallas volunteers with the Boy Scouts, United Way, Rotary International, Community Soup Kitchen, Morristown Memorial Hospital, and his church. The Dallas live in Morristown, N.J., and Bethany Beach, Del., and have two children, Jeffrey T. Dallas '83 Hotel, MBA '91 and Madolyn A. Dallas, (MS University of Denver), and five grandchildren.



**Pamela G. Marrone '78** is chairman, president, and CEO of AgraQuest, Inc. Founded in 1995, AgraQuest, Inc., based in Davis, Calif., is a global leader in the discovery, development, manufacture, and marketing of environmentally safe and effective natural pest management solutions for farm, home, and public use. Before founding AgraQuest, Marrone was the founding president of Denmark-based Novo Nordisk's subsidiary, Entotech, Inc., which she built from the ground up from zero to 50 people. Before working with Novo Nordisk, Marrone worked with Monsanto Agricultural Company. There she started an entomology program to discover new pesticides using biotechnology.

Over the past five years, Marrone has had Cornell externs shadow her to learn about starting and running an entrepreneurial venture. She has also provided career advice to many ALS students and alumni. She is a member of the Northern California district leadership team of the ALS Alumni Association.

Marrone is a board member for Sutter Health (Central Area), and is vice-chair for Yolo/Solano County's Sutter Davis Hospital. Marrone has served on the board of the Davis Chamber of Commerce, the Explorit Science Center, and was honored in 1994 by the Sexual Assault and Domestic Violence Center for "sustaining the center and its mission." She is on the board of the National Foundation of Integrated Pest Management Education and serves on the UC President's Commission on Agriculture and Natural Resources and UC President's Council of Research and Economic Development. She is also on the board of the Sacramento Entrepreneurship Academy and is co-founder of UC Davis CONNECT and DATA (Davis Area Technology Association).

Marrone was the 2001 recipient of the Sacramento Regional Chamber's Businesswoman of the Year Award and the *Sacramento Business Journal's* 1999 "Women Who Mean Business" Award. She lives in Davis, Calif., with her husband, Michael J. Rogers '78 HE.



**Peter J. Nolan '80, MBA '82** is a general partner with Leonard Green Partners L.P., a \$2 billion merchant banking company that specializes in acquiring companies that focus on consumer-related businesses, especially those with headquarters on the West Coast. Leonard Green Partners is the largest and best known private equity firm in Southern California. LGP owns or controls such companies as Rite Aid Drugstores, Veterinary Centers of America, Petco, Twinklamps, and AsianMedia Group. Prior to becoming a partner with LGP, Nolan was co-head, managing director, and principal of Donald, Lufkin & Jenrette's Los Angeles Investment Banking Division. During his tenure, DLJ became one of the most productive investment banks in the U.S. with over 130 bankers.

Nolan serves on the board of many different companies, including Liberty Group Publishing, AsianMedia Group, Veterinary Centers of America, White Cap Inc., and previously served on the supervisory Board of Adidas AG. He is also a trustee of the Children's Bureau of Southern California (a charity serving abused and foster children).

Since 1983, Nolan has guest lectured for several courses in the college's Department of Applied Economics and Management. Several years ago, he established two scholarships for undergraduates in the department. He has also served as a member of the Cornell University Council since 1997.

Cornell is an ongoing tradition with the Nolan family. Peter's father, David J. Nolan BS '49, MS '51, was the recipient of the Outstanding Alumni Award in 1997. His sisters, Mary Nolan Dayz '82 MBA '87, and Liz Nolan Nethery '79, and brother, David J. Nolan, Jr. '98, are graduates of Cornell. Nolan and his wife, Stephanie Perry Nolan '84 Hotel, live in Manhattan Beach, Calif., with their children, Michael, Robert, and Ellie.



**Michael E. Valla '76** is the medical director and dentist with the Glens Falls Hospital Rural Pediatric Mobile Dental Program. He earned his DDS degree at Georgetown University's School of Dentistry in 1982. He was in private practices in Ithaca and Syracuse before moving to Saratoga Springs in 1988 to join the Active Medical/Dental Staff of Glens Falls Hospital. In 1989, Valla was appointed medical director and dentist of the Hospital's Pediatric Dental outreach program for indigent children, a program serving Warren, Washington, Saratoga, Hamilton, and Essex counties. Valla has treated nearly 14,000 needy children out of the nearly 20,000 treated by this unique school-based program serving the Glens Falls and Adirondack regions since 1976. Under his direction, the program has expanded into the Adirondacks, and he has been instrumental in initiating expanded preventive initiatives for indigent children in rural areas. Under his leadership, the unit increased the number of treated children by 40 percent.

Valla has served as district director for Saratoga, Washington, and Warren counties; and is on the ALS Alumni Association board of directors, serving as its admissions liaison. Valla and his wife, Valerie '79 HE, are active in CAAAN (Cornell Alumni Admissions Ambassador Network), being regional co-chairs and interviewing over 100 applicants to Cornell in the last three years.

Valla helped establish the Cornell Sportfishing and Aquatic Resources Education Program (SAREP) in Saratoga County. He is co-editor of New York's Master Forest Owners/COVERTS program, has participated in Saratoga County 4-H programs, and has served as a trustee of the Saratoga Springs Board of Education. Valla and Valerie live in Saratoga Springs, N.Y., and have three children: Jennifer '02, a senior in the College of Human Ecology; Jeffrey '05, an incoming freshman in CALS; and Justin.



## Young Alumni Achievement Awards



**Kelly Joan Brown '88, MBA '92** is currently a marketing director "on loan" to Procter & Gamble's Corporate Communications Division, where she is working to develop a corporate branding program for P & G. She joined Procter & Gamble after earning her MBA at the Johnson Graduate School of Management. In less than four years, she was promoted to brand manager for two highly strategic P&G brands. Brown's effectiveness in this position resulted in her being given new responsibilities in developing strategies for P&G's Corporate New Ventures group. Her efforts in this role provided the basis for P&G's recent entry in the pet food (IAMS) and water purification (PUR) businesses. Brown was promoted to marketing director on fast timing and spent the last 18 months working with P&G's top global customers' businesses. She initiated the first "Take Your Daughters to Work" day at P&G in 1993 and was the recipient of the 1999 Organizational Leadership Award in her Global Business Unit.

Brown is active with many volunteer activities for Cornell, serving as president of the Cornell Association of Class Officers (CACO), vice president on the board of directors of the Cornell Alumni Federation, member of Cornell University Council, and president of the Class of 1988. Before joining P & G, she was the associate director of ALS Alumni Affairs.

Brown participates in various community and professional activities. These include the Junior League of Cincinnati, Hyde Park Methodist Church, and the Cornell Club of Southwest Ohio. She has also served on the Playhouse in the Park marketing committee and been active with the Covington Kenton County Jaycees. She and her husband, Tim, live in Indian Hill, Ohio. Her parents, George C. Smith BS '56, MPS '57 HE and Grace E. Young Smith '57, are also Cornellians.



**Michael L. Huyghue '84** is senior vice-president of football operations for the Jacksonville Jaguars of the National Football League and serves on practically every critical committee for the commissioner of the NFL. Huyghue's leadership has helped make the Jacksonville Jaguars a winning and well-respected franchise in a relatively short time. After earning a law degree from the University of Michigan, Huyghue served as counsel for the NFL Players' Association and then as labor relations counsel with the NFL Management Council for three years. He then went on to become the first general manager for the Birmingham Fire, a new team with the World Football League. The following year, Huyghue worked for the World Football League as vice-president and general counsel. Before joining the Jaguars, he served as vice-president of administration and general counsel for the Detroit Lions.

Huyghue is a Cornell volunteer leader. He is a member of the Cornell Board of Trustees and active with the Cornell Club of Greater Jacksonville and Cornell Club of New York. He is also a member of the Class of '84 Reunion Committee, the Cornell Football Association board of directors, the Cornell Athletics Fundraising Committee, and provides externships with the Jaguars for Cornell undergraduates.

In his community, Huyghue is active with the Jacksonville YMCA board of directors, Jacksonville Urban League board of directors, Communities-in-School executive board, and Jacksonville Chamber of Commerce executive committee. He also lectures on sports and entertainment law at top-ranked law schools and national conferences. He and his wife, Kimberly, live in Ponte Verde Beach, Fla., with their children, Kristen, Kathryn, and Tyler.

## Outstanding Faculty/Staff Awards



**Richard A. Church '64** retired as director of alumni affairs after 32 years with the College of Agriculture and Life Sciences. He began his career with the college in 1968, serving as assistant to the dean under Dean Charles E. Palm. In this position, he assisted with the establishment of early fundraising efforts for the College of Agriculture Fund. In 1972, he joined the ALS Admissions Office, serving as director from 1981 to 1993. Church directed the recruitment, selection, and enrollment of approximately 650 freshmen, 250 external transfer students, and 100 intra-university transfer students each year. He played a role in recruiting and admitting more than 15,000 of the college's alumni. Church moved to the director of alumni affairs position in 1993. He coordinated and motivated the activities of the more than 200 alumni volunteers who are actively involved with the ALS Alumni Association.

Church is active in Alpha Zeta Fraternity, having previously served as the local adviser and general campaign committee chair, and currently serving on the Alumni Corporation Board. He has also served on the Cornell National Scholarship Review Committee, the Cornell Tradition Advisory Council, the University Strategic Planning Subcommittee on Recruitment and Retention, and provided leadership to Cornell's Quill and Dagger Alumni Society.

In 1996 Church was awarded the State University of New York Chancellor's Award for Excellence in Professional Service. The National Agricultural Alumni and Development Association, Inc. honored him with its NAADA Professional Achievement Award in 1999. He is also a recipient of the Alpha Zeta Fraternity Distinguished Service Award. This spring, the ALS Alumni Association honored him by renaming its senior service award to the Richard A. Church '64 Senior Service Award. He remains involved with the college on a part-time basis.

Church and his wife, Joyce '64 HE, live in Freeville, N.Y. They have three children: Sheryl Church '89, Deborah Church Worley '92 ARTS, and Stephen Church '95.



**George W. Trimberger** was a professor in the Department of Animal Science from 1944 until his retirement in 1975. He taught several dairy courses and was responsible for the Cornell dairy herd. He coached the Dairy Cattle Judging Team for 24 years to one of the best cumulative records in national competitions. His book *Dairy Cattle Judging Techniques* became the standard of the industry. Trimberger authored or co-authored 188 publications on dairy cattle management. He judged many dairy cattle shows including 10 national or international shows in the United States and six in foreign countries. He revised the type classification system for the Holstein-Friesian Association of America, basing it on higher and more economical lifetime milk production. The system was soon followed by all the other dairy breeds. In 1996 his system was adopted worldwide by 35 countries.

Trimberger had many international assignments. He was project director from 1955 to 1957 on a rehabilitation program for the College of Agriculture in the Philippines. During a Food and Agricultural Organization (FAO) assignment in Israel in 1965, Trimberger set up a type standard for the 73,000 Holstein cattle in that country. After his retirement from Cornell in 1975, he served 2 1/2 years as chief of party for the Veterinary Medicine project and chair of the Department of Animal Science at Ahmadu Bello University in Nigeria.

Trimberger received the New York Farmer's Award in 1973 in recognition of his contributions to dairy farming and agriculture in the Northeast. The New York State Holstein Association placed his portrait in their state headquarters. Trimberger received the National Award of Merit from the Brown Swiss Association. His portrait hangs in the National Dairy Hall of Fame in Ft. Atkinson, Wis. He also received the first distinguished service award from the New York Purebred Dairy Cattle Association in 1985. He is a member of several professional honor societies including Sigma Xi and Gamma Sigma Delta.

Trimberger lives in Charlotte, N.C., and has three children: Ellen K. Trimberger '62 ARTS, George M. Trimberger '65, MBA '66 and Pamela Trimberger Castro.



## ALS Alumni Awards Banquet

Friday, September 14, 2001

Carrier Ballroom at the Statler Hotel,  
Cornell University

For an invitation to join us in honoring this year's recipients of the Outstanding Alumni Awards, Young Alumni Achievement Awards, and Outstanding Faculty/Staff Awards, please contact the ALS Alumni Affairs Office at (607) 255-7651 or by e-mail at alsaa@cornell.edu

# New Book Explores the Cosmos Under Our Feet

**Worms, microbes, ferrets, and prairie dogs are just a few of the critters that live underground, creating a rich and often unseen world.**

**D**avid Wolfe sees the forest for the trees . . . and the earthworms for the soils, the prairie dogs for the grasslands and the *Rhizobium* for the nitrogen.

In his first book, *Tales From the Underground: A Natural History of Subterranean Life* (Perseus Books, May 2001), Wolfe, professor of horticulture, wanders through a subterranean wonderland explaining how all the pieces of nature's puzzle fit together.

The world below is little known. Until recently, scientists did not realize that microbial life existed some 10 feet under us, believing that life could not be sustained at that depth. It turns out that microbial life forms teem deep below the surface with "extremophiles," which are microbes that exist without oxygen or sunlight, and—closer to the Earth's core—at temperatures well beyond water's boiling point. Extremophile microbes, it seems, are useful in remediating soil tainted from oil spills and chemical dumping.

Wolfe paints an animated portrait of a wide variety of critters, scientific characters and—in the context of ecology—the exchange between humanity and other creatures. For example, while Charles Darwin is best known for his famous treatise *The Origin of Species*, Wolfe recounts Darwin's less well-known work, *The Formation of Vegetable Mould Through the Action of Worms*, a book that became a best seller in its day. Worms keep soil healthy, serving to aerate and add nutrients through their fecal matter. "The fact is that Darwin did not consider earthworms inconsequential, and his interest in them spanned almost his entire professional career," Wolfe writes.

When thinking of life underground, few city dwellers consider the importance of prairie dogs and black-footed ferrets (one



Photo by Dean Biggs/U.S. Geological Survey

Because of humanity's effort to wipe out the prairie dog, the black-footed ferret teeters on extinction.

of the rarest mammals in North America) and the well-being of soil. Wolfe explains that prairie dogs, a keystone species, are sophisticated land managers, keeping

were considered pests by landowners, and the U.S. Biological Survey "helped" ranchers eradicate the animals by applying 1,610 tons of strychnine in 1920

*Wolfe paints an animated portrait of a wide variety of critters, scientific characters, and the exchange between humanity and other creatures.*

grasses trimmed to specific heights, and their burrowing and tunneling expertise benefits many other species.

Early in the 20th century, prairie dogs

alone. Strychnine-coated grain was applied to 18 million acres of ranch- and farmland and 4.5 million acres of public land. Prairie dog colonies were reduced

from inhabiting 250 million acres in 1870 to 1.5 million acres by 1960. The poisoning of prairie dogs continues today.

The problem with prairie dog eradication is that black-footed ferrets have been left with little to eat; they have become susceptible to the bubonic plague, and their populations have dwindled to the edge of extinction. Writes Wolfe of the ferrets, which kept the prairie dogs in check, "Beneath a sweet and endearing exterior is a hunter with extremely strong jaws, a long, supple body for maneuvering in the subterranean, and a keen sense of smell."

*Tales From the Underground* does not ignore agriculture, exploring the relationships of soil, plants, and roots. The root underworld alone bursts with activity. Wolfe recounts how a young German soil microbiologist named Martinus Biererink became the first to isolate *Rhizobium*. The bacterium produces nodules the size of corn kernels on the roots of legumes, where it "fixes" ammonium, a nitrogen fertilizer, from nitrogen gas in the soil. This process makes legumes important as a rotation crop, sparing farmers the work and expense of putting down processed fertilizer.

In one chapter, "Germ Warfare," Wolfe explains how noted Rutgers University soil biologist Selman Waksman discovered streptomycin and other miracle drugs from his soil samples. "Many of our most potent antibiotics for fighting human disease are derived from the soil," writes Wolfe. "It is my hope that as more of us become aware of life beneath our feet and its relevance to our well-being, we will be inclined to work together to maintain the biological integrity of the underground and preserve some of what we find there for future generations."

Blaine P. Friedlander Jr.

## Home Football ALS Tailgate

Saturday, September 15, 2001  
Cornell vs. Bucknell

1:00 p.m. Football Game  
Pre-Game Tailgate on Kite Hill  
Sponsored by the ALS Alumni Association  
Call: (607) 255-7651  
E-mail: alsaa@cornell.edu

## Celebrate Homecoming

Saturday, October 13, 2001  
Cornell vs. Harvard  
1:00 p.m. Football Game

All-Alumni Pre-Game Rally and Tailgate  
Special Seating for ALS Alumni  
Lynah Rink Tent  
11:00 a.m. to 1:00 p.m.  
Chicken & Ribs Barbecue  
Cornell Cheerleaders, Big Red Band and Johnny Russo Band  
\$15 per adult; \$8 per child (6-12 years)  
Call: (607) 255-7651;  
E-mail: alsaa@cornell.edu

## Homecoming Career Networking

CALS Homecoming's Alumni Career Link...Live!

Saturday, October 13, 2001  
10 a.m. to 12 noon  
Biotechnology Building

Alumni Career Link is a database of CALS alumni volunteers who are willing to discuss their careers with students and other alumni. Homecoming's Alumni Career Link...Live will provide students and alumni the opportunity to interact face to face with a group of these volunteers. They are ready to discuss their careers and answer questions.

Call: (607) 255-9590; E-mail: alsaa@cornell.edu

## Reunion Breakfast 2001



Jim Christner '65 reminiscences at Reunion Breakfast with Ari van Tienhoven and his wife, Ans.



Enjoying Reunion Breakfast are l-r: First Vice-President A. Edward Staehr '88 and district directors Joe Moran '81 and Mason Forrence '69. Moran is district director for District 2 (Kings, Queens, and Richmond counties in New York City). Forrence is district director for District 10 (Clinton, Essex, Franklin, and Hamilton counties).

Photo by Nicola Kountoupes, University Photography

# CU-Developed Carbonated Milk Drink Makes Its Big Moove

## Got e-Moo?

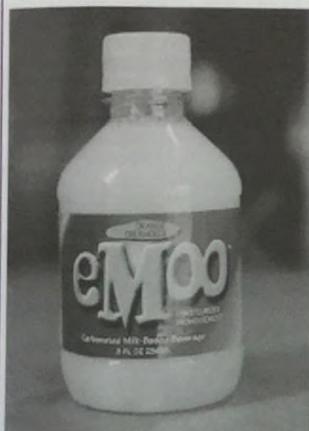


Photo by Frank DiMeo, University Photography

**T**aking direct aim at the youth sports drink and carbonated soft drink industry, a carbonated, milk-based beverage has been developed by food science researchers in the College of Agriculture and Life Sciences. Called e-Moo and made by Mac Farms Inc. of Burlington, Mass., the new drink is in supermarket dairy cases this summer.

Initially e-Moo came to the market in three flavors: Orange Cremecicle, Cookies and Cream, and Fudge Brownie. The product contains all the nutrition of nonfat milk with added calcium and only half the sodium found in other flavored milks. Named for the Internet world that children live in, e-Moo is sweetened with fructose instead of refined sugar.

"The carbonation does the same thing in soft drinks as in e-Moo. It provides a carbonated sensation. Also, it extends the shelf life of what you would expect from milk," said Joseph Hotchkiss, professor of

food science and one of the researchers who worked with Mac Farms on the product's development. "With refrigeration, we believe that e-Moo can last six weeks."

But unlike carbonated soft drinks—supercharged with sugar, flavoring, and little, if any, nutrition—e-Moo is good for children. "The time might be right for e-Moo," said Hotchkiss. "The nutrition base is right. If you are 5 or 6 years old, you might like this."

The fluid idea of the e-Moo beverage began when George and Mary Ann Clark of Mac Farms noticed that children, teens, and young adults were drinking large amounts of sports beverages and soft drinks. "At the same time, we also noticed that sales growth in the fluid dairy industry was flat," said Mary Ann Clark, vice president of marketing at Mac Farms. "There had been no recent technical innovations that were of any direct benefit to the consumer."

Mac Farms turned to Cornell's food sci-

ence expertise to produce a formula and to provide data on product stability, nutritional efficacy, and the modifications to standard milk processing equipment for production.

"They wanted folks with experience, and we helped turn this concept into a product," said Hotchkiss, who has been working with the company and Eric Hallstead, manager of the Cornell food science department's pilot plant, for about a year.

St. Albans Cooperative Creamery Inc. of St. Albans, Vt., a consortium of nearly 600 dairy farmers from Vermont, New York, New Hampshire, and Massachusetts, provided the initial funding for the development of e-Moo.

Said Hotchkiss: "If there is a salvation for the fluid milk business, which has been on an economic downslide, it is making a beverage with milk components. And this could be one successful product."

Blaine P. Friedlander, Jr.

## Sharon Detzer Named Director of Alumni Affairs



Photo by Matthew Fossler

**S**haron L. Detzer '88 joined the ALS Public Affairs staff this May as the new director of alumni affairs. She is responsible for supporting and managing the alumni affairs programs of the ALS Alumni Association and increasing the college's visibility to its more than 45,000 diverse alumni, parents, and friends.

With more than 12 years of experience in the Office of University Alumni Affairs, Detzer served as the director of class programs for 10 years. She supported the Cornell Association of Class Officers (CACO) board and directed programs that reached more than 1,600 alumni class volunteers and 127,000 living alumni. Her program covered a broad spectrum of demographics, interests, and needs. Most recently she worked with the director of the Cornell Fund to redefine the University's Young Alumni Program.

Detzer received her bachelor's degree in communication in 1988 and was a Cornell Tradition Fellow. Prior to transferring to Cornell, she received an associate's degree in business administration from Cayuga Community College. She is a longtime volunteer for the college, with experience on her district leadership team, board committee assignments, and with the National Agricultural Alumni and Development Association (NAADA) conference hosted by the college two years ago.

Detzer would like feedback from alumni about events and programs. She encourages more young alumni to become volunteers and hopes to increase alumni activity beyond New York State. She can be reached via e-mail at sld4@cornell.edu or phone at 607-255-1915.

## Ben Davis Named Associate Director of Development



Photo by Richard Killeen

**B**enjamin P. Davis '88 joins the ALS Public Affairs staff in late August as the associate director of development. Davis will be responsible for the college's planned giving and leadership gifts programs, as well as coordinate efforts to support the college's Cornell Fund goals.

Davis is no stranger to ALS or Cornell. After spending 11 years at the University of New Hampshire directing development and youth programming for Cooperative Extension and the 4-H Foundation of New Hampshire, he returned to Cornell last June as the executive director for the New York State 4-H Foundation. This past year he has been responsible for completing the 4-H Foundation's capital campaign, redesigning an annual and major gifts program, strengthening volunteer board involvement, integrating new donor and financial software, and leading the planning for the 4-H Centennial in 2002.

Davis was an active ALS student, serving as an officer in groups such as the Ag Council, Ho-Nun-De-Kah, Alpha Gamma Rho, and Collegiate 4-H. He was also a Cornell National Scholar, Tradition Fellow, Quill & Dagger member, an animal science teaching assistant, and received the ALS Senior Service Award.

## Planned Giving Luncheon



Photo by Frank DiMeo, University Photography

Elwyn Voss BS '64, MS '72 and his wife, Angie, of Norwich, N.Y., visit with Dean Susan Henry at the ALS Planned Giving Luncheon. Voss served as the chair of the college's planned giving committee.



Photo by Frank DiMeo, University Photography

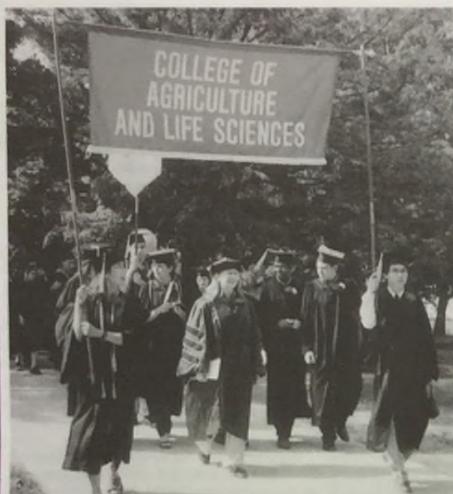
Sarah Van Orden '02 of Catskill, N.Y., visits with the Everingham family during the college's planned giving luncheon. Van Orden is an Everingham scholar. Pictured (l-r) are Van Orden '02, Robert I. Everingham Sr. '41, Blanche Everingham, Dean Susan Henry, and Pam Everingham, daughter-in-law.



Photo by Frank DiMeo, University Photography

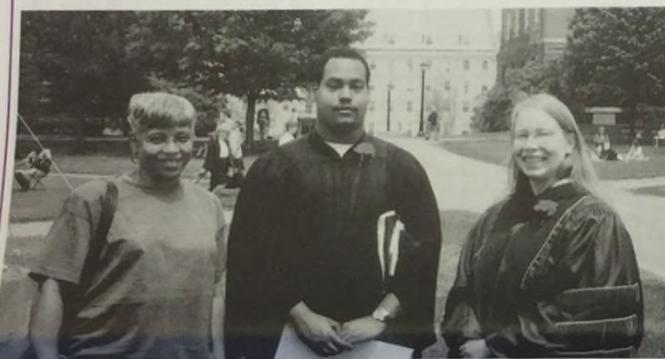
All in the Family—Dean Susan Henry poses with Richard C. Call '52 of Batavia, N.Y.; Professor Emeritus Harlan B. Brumsted MS '49, PhD '54 of Ithaca, N.Y.; Alden M. Jones BS '37, MS '39 of Norwich, N.Y.; and Dean Emeritus David L. Call BS '54, MS '58, PhD '60 during the college's planned giving luncheon. Brumsted is married to Eveline Call Brumsted (HE '45). Jones is a cousin to the Call brothers.

# Commencement 2001



Dean Susan Henry walks with banner bearers Julie March '01 and David Kaplan '01 during Commencement ceremonies.

Robert Mann-Thompson '01 and his mother, Felda, stopped to meet Dean Susan Henry following Commencement ceremonies on Sunday, May 27.



## Cornell Sheep Program Blankets

The Cornell Sheep Program is demonstrating how to add value to the bleak price of wool by creating and selling blankets from the wool of Cornell Dorset and Finnsheep breeds and their crosses. These high-quality blankets are a natural color with red stripes and are great for football games and cold nights. They make excellent graduation, wedding, birthday, and holiday gifts. Each blanket is individually serial-numbered on the Cornell Sheep Program logo label and comes with a certificate of authenticity. Purchase of these blankets helps to support the Cornell Sheep Program and \$10 from each sale goes to an undergraduate scholarship fund.



Blanket style	Blanket size	Blanket price (including sales tax)
Lap robe	60 x 48 inches	\$60
Single	60 x 90 inches	\$85
Double	72 x 90 inches	\$95
Queen	78 x 104 inches	\$110

Shipping is \$7 per blanket and payment can be by check to Cornell University or by VISA or MasterCard.

Additional information about the Cornell Sheep Program can be found at our web site at [www.sheep.cornell.edu](http://www.sheep.cornell.edu) and orders for blankets can be placed by writing to Blanket Program, c/o Mike Thonney, 114 Morrison Hall, Cornell University, Ithaca, NY 14853-4801 or by telephone (607-255-2851), fax (607-255-9829), or e-mail (mlt2@cornell.edu).



[www.ansci.cornell.edu/sheep/sheep.html](http://www.ansci.cornell.edu/sheep/sheep.html)

## New Student Director Named

Courtney Scoggins '03 of Newton, Miss., was elected as the junior student director on the ALS Alumni Association's board of directors at the association's annual meeting on June 9. She replaces Leah Hurtgen '01 who graduated in May and is working for New York Farm Bureau in Glenmont, N.Y. While in high school, Scoggins was active in several organizations including serving as the Mississippi State FFA president. At Cornell, she is serving on the ALS Ambassador Steering Committee and is vice-president for chapter operations for the Alpha Phi sorority. Scoggins is also the president of the Cornell review band "Don't Ask." She is majoring in general studies with an emphasis in communication and international agriculture.

## Dean/Alumni Get-Togethers



Dean Susan Henry talks with Bob Pask '52 and his wife, Marie, during the Dean/Alumni Get-Together in Batavia, N.Y.



Waterman Village in Mount Dora, Fla., is home to many Cornellians who gathered in the spring for a visit from Dean Susan Henry. Seated Lr: Miriam Brown, Helen Dae Wheeler, and Claire Larson. Standing in front row Lr: Ruth Latimer '45, MS '46, Martha Cheney '40, Julie Newman '38, Alice Rose, Jim Rose '44. Standing in back row Lr: John Davenport '28; Alexander (Sandy) Cheney '40; Robert Latimer '39, MS '42; W. Dale Brown '39, MS '59; Olaf Larson; Wendell Wheeler '36; Paul Newman PhD '37. Not pictured: Edward Eaton MS '50, PhD '52, and Lois Eaton.



Yang Wei PhD '97 (center), vice-president of processing and technology of Cliffstar Corporation, addressed ALS alumni from Chautauqua and Cattaraugus counties in Mayville, N.Y. Wei discussed the employment opportunities for today's youth in the food processing industry.

# Student Events

Senior Student Director Leah Hurtgen '01 and Jenny Kelsey '01 hand out free ice cream on the Ag Quad during a recent promotion to raise awareness of the ALS Alumni Association.



Alumni Association President Geoffrey C. Yates MS '77 speaks during the annual Student Appreciation Banquet, which recognizes student ambassadors, student employees in the ALS Public Affairs offices, and freshman scholarship recipients.

## ALS Alumni Forum



Debra Perosio '79 of the Food Industry Management Program in the Department of Applied Economics and Management talks about "The Changing Face of Retailing in the New Economy" during the ALS Alumni Forum held March 31 on campus. Nearly 250 alumni and friends returned to campus for this one-day event.

## 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, former professor of communication. Alumni and faculty members chose these scenes, which represent the four seasons, as the most memorable of campus and the Ithaca countryside. Choose from the following:

	10" x 13"	15" x 17"
<input type="checkbox"/> Taughannock 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 14853-5905.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State/Country \_\_\_\_\_

Zip \_\_\_\_\_

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

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## '00 ALUMNI ASSOCIATION International

(these were held over from last issue due to space contraints)

### AMERICAN SAMOA

Mark A. Schmidach '91

### ARGENTINA

Arabela M. Berger '99

### AUSTRALIA

Robert A. Bain '76

### AUSTRIA

Manuela Kitz '94

### BANGLADESH

Md R. Shammin '95

### BELGIUM

Alex M. Fairchild '80

Hamid K. Gow '97

### BRAZIL

Gilberto S. Abreuquer '95

Alan Butterfield '76

### CANADA

Carolyn G. Allen '74

J.L. Allard '91

Asstia L. Bowman '95

Colette C. Brendon '98

Hannah C. Brown '99

George W. Cunningham '99

Nancy A. Dilksbaugh '99

Lorraine E. Doherty '99

Amy F. Fraker '91

Douglas H. Griff '94

Hannah K. Harkness '99

Mansur Imami '92

William A. Jenkins '47

James S. Johnson '26

Melissa Jankula '99

Kyle W. Knapp '99

Jeanne L. Koenig '97

Adrienne L. Morrissey '60

Jeff D. Oates '99

Jeffrey P. Oates '99

Tommy R. Rhodes '99

Sebastian J. Savore '94

Stephen J. Schaeffer '99

Katherine M. Thompson '99

James S. Townsend '65

Tracy J. Ward '91

Byron J. Weissenbeck '99

Patricia A. Williams '99

Charlotte Wright '90

### COLUMBIA

Horacio J. Ayala '74

Miguel E. Daugard '98

Pedro L. Gomez-Carreiro '92

Laura Lujan-Claire '93

### COSTA RICA

M. Preysing D. Kass '74

Carlos M. Rojas '82

### DORADO

Laura R. Diaz '97

Theresa M. Pedrickson '72

### ECUADOR

Edwin A. Chourio '95

Juan B. Leon-Cevallos '75

Peter M. Rosnerik '91

### ENHOLM

Rudys Della '90

John F. Evans '63

Robert J. Fornari '97

Alan T. Hirzel '99

Jeffrey G. Holt '75

Edmund Kinschke '97

Andrew R. Sorkin '99

Stephen M. Sandstede '61

### FINLAND

Krista P. Kauppinen '99

### FRANCE

Pierre H. Blase '98

Ramzi Schmutz '98

### GERMANY

Jork P. Seitschopf '94

### GUAYABO

Abraham A. Parker '90

Alecia A. Ramos '96

### HONG KONG

Catherine W. Cheung '79

### INDIA

Upper Krishnamoorthy '82

### ISRAEL

Arthur S. Lieberman '52

Ariene S. Langen '41

George T. Rosenberg '81

### JAMAICA

Arthur C. Wade '70

### JAPAN

Kanako Abe '98

Yoshie Kanemura '78

Isao Tomi '81

Yasuko Demura '96

Juniko Watanabe '95

### KENYA

Linda H. Archer '68

Dale E. Brady '76

Robert L. Eller '71

### KOREA

In-Kyu Han '98

Yoon Lee '99

### MEXICO

Rodrigo J. Zdziarski '76

Bogdanito Ruiz-Lopez '97

Felipe Pintor '72

### NIGERIA

Prince Bright L. Akire '98

Reinde N. Okigbo '96

Phatoma N. Okigbo

### NORWAY

Judith H. Meadow '92

Richard H. Meadow '82

### PERU

Maria M. Sciarra '72

### PHILIPPINES

Salvador L. Carlos '54

Orlando G. Santos '76

### Puerto Rico

Norman R. Iglesias '96

Ricardo R. Utrera '99

### SINGAPORE

Theresa K. Eng '99

Cheryll H. Yeo '99

### SRI LANKA

Kasundipha Barker '53

### ST. CROIX

Lynn S. Gleason '94

### SWITZERLAND

Barbelle Schimpf '99

David M. Simon '67

### TAIWAN

Fong-Yee Nyap '99

Benjamin M. Schwall '90

### THAILAND

Jitapak Chumpong '95

Jak-Jak Chumpong '95

Thavorn Varaphaya '95

### UGANDA

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### WEST INDIES

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Susan M. Scheffler '00

Jessica L. Walters '97

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Stephen E. Armstrong '95

Prince Rhoda '95

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# ALS NEWS

Agriculture and Life Sciences

August 2001



## Vectors of Disease

In our global economy, insect stowaways travel from continent to continent on airplanes and ships, bringing diseases to foreign lands

See story on page 1

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3

Street Drugs Take Toll on the Brain

5

Brian Donovan Designs Dramatic Lights

6

Dairy Science Fellows Go to New Zealand

7

A Plethora of Pet Foods

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Alumni Affairs and Development  
College of Agriculture and Life Sciences  
276 Roberts Hall  
Ithaca, New York 14853-5905

### Change Service Requested

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August 2001

## Calendar 2001

### Friday, August 24

Young Alumni Gathering at Hooligan's, Liverpool, N.Y.  
6 p.m. Come for the food, volleyball, and social time with other Cornellians in Central New York. For more information, contact Caleb Torrice '98 at (315) 342-9081 or [cjt3@cornell.edu](mailto:cjt3@cornell.edu).

### Saturday, September 8

Dean/Alumni Get-Together, Picnic and Winery Tour, Napa, Calif.  
Noon to 4 p.m., Atlas Peak Winery. Meet Dean Susan Henry. Dish-pass picnic. For more information, contact Ray Barton '53 at (530) 756-0632 or [rbarton@aol.com](mailto:rbarton@aol.com).

### Friday, September 14

ALS Outstanding Alumni Awards Banquet, Ithaca, N.Y.  
Carrier Ballroom at the Statler Hotel. For more information, call (607) 255-7651 or email [alsaa@cornell.edu](mailto:alsaa@cornell.edu).

### Saturday, September 15

ALS Tailgate, Ithaca, N.Y., noon-1 p.m.  
Cornell vs. Bucknell football, 1 p.m.  
For more information, call (607) 255-7651 or email [alsaa@cornell.edu](mailto:alsaa@cornell.edu).

### Friday-Sunday, September 14-16

SuccessFest '01 "Sherehe Ya Mafanyikio," Ithaca, N.Y.  
Sponsored by the Cornell Black Alumni Association. Program includes alumni-in-residence program, an open house at the Africana Studies and Research Center, and social events. For more information, contact Minority Alumni Programs, Office of Alumni Affairs at (607) 255-4173 or [kam77@cornell.edu](mailto:kam77@cornell.edu).

### Saturday, October 13

Cornell Homecoming, Ithaca, N.Y.  
Homecoming's Alumni Career Link . . . Live! 10 a.m.-noon. Biotechnology Building on campus. Discuss careers with other alumni and students. For more information, call (607) 255-2215 or email [alsaa@cornell.edu](mailto:alsaa@cornell.edu).  
Pre-game rally and tailgate, 11 a.m.-1 p.m.  
Cornell vs. Harvard football, 1 p.m.  
For more information, call (607) 255-7651 or email [alsaa@cornell.edu](mailto:alsaa@cornell.edu).

### Saturday, October 20

Admissions Open House for Prospective Students, Ithaca, N.Y.  
For more information, call (607) 255-2036 or email [als\\_admissions@cornell.edu](mailto:als_admissions@cornell.edu).

### Saturday, October 27

ALS alumni at Turning Stone Casino, Verona, N.Y.  
For more information, contact Deborah Windecker at (315) 866-4221 or [windex@ntcnets.com](mailto:windex@ntcnets.com), or Mollie Pulver at (315) 823-9419 or [mollie@mvip.net](mailto:mollie@mvip.net).

### Friday, November 2

Transfer Day for Prospective ALS Transfer Students, Ithaca, N.Y.  
For more information, call (607) 255-2036 or email [als\\_admissions@cornell.edu](mailto:als_admissions@cornell.edu).

### December 1

Join CALS alumni and the Cornell Club of Princeton in cheering on the Cornell men's hockey team as they take on the Tigers at Princeton. Contact Karen Ferguson '86 at (908) 873-8130 or by email at [karenff@eclipse.net](mailto:karenff@eclipse.net) for more information.

For other Cornell events in your area:  
Click the News, Events, and Activities listing at [www.alumni.cornell.edu](http://www.alumni.cornell.edu)