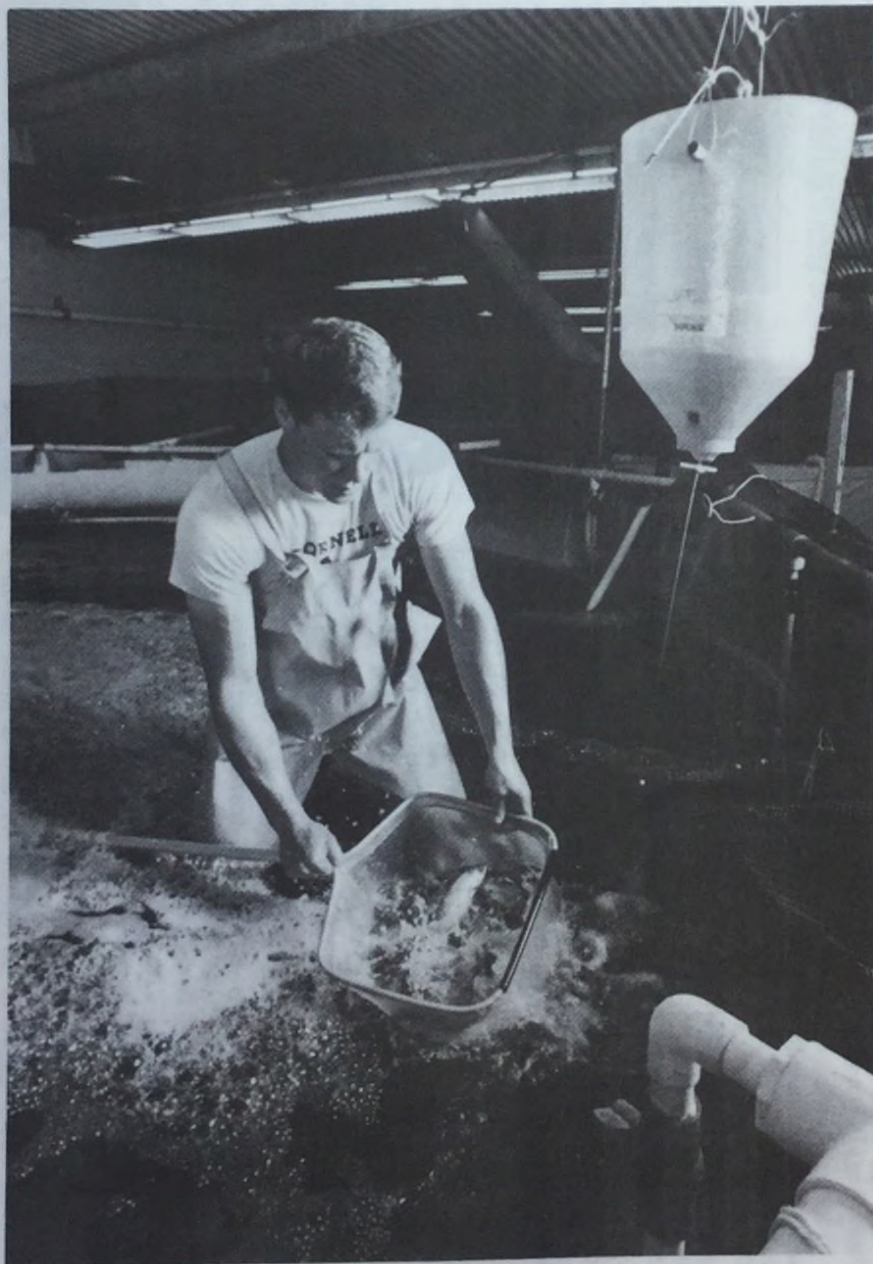


agriculture & life sciences

news

New York State College of Agriculture and
Life Sciences at Cornell University

November 1987



Glenn Snapp '86 nets Atlantic salmon, one of two fish varieties raised for the Cornell study.

Raising Fish in Barns

Nutrition-conscious Americans are gravitating in ever greater numbers toward seafood. Since 1980 the per capita increase in seafood consumption has jumped more than 12 percent with no end in sight. Yet the United States imports almost 60 percent of its fish products, and New York State harvests very little of its own.

Enter the Cornell Aquaculture Program. Staffed by a team of scientists from six specialty areas, the program has a fourfold task: to develop the technologies, management systems, and marketing strategies for a new industry. The fourth part is that it must be based on water reuse.

Aquaculture—growing crops in a water medium—has been around for a long time, according to William Youngs, professor of natural resources, who co-directs the program with Michael Timmons, associate professor of agricultural engineering. "It's been used for food production in China for well over two thousand years."

"In the United States aquaculture developed out of an interest in propagating game fish," said Timmons. "Trout hatcheries have been in existence for more than 150 years. But hatcheries, like other intensive aquaculture systems, usually depend on a natural water source, and thus can be prey to extreme variations in water quality."

To address this problem, members of the Cornell Aquaculture Program designed a self-contained system where the same water is used over and over again. The system is located at the Teaching and Research Center in Harford, N.Y.

**Inside: 1986-87 Alumni
Donors to the College**

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Four Faculty Members Named Liberty Hyde Bailey Professors

Four members of the faculty have been named Liberty Hyde Bailey professors. They are Dale E. Bauman, professor of animal science; Rosario Provvidenti, professor of plant pathology at the Agricultural Experiment Station at Geneva; Daniel G. Sisler, professor of agricultural economics; and Peter L. Steponkus, professor of agronomy.

These appointments bring to ten the number of Liberty Hyde Bailey professors, distinguished faculty in the college who have national and international reputations in agriculture and related sciences.

The professorship was established in 1972 in honor of Liberty Hyde Bailey, who was a professor of horticulture from 1888 to 1913 and dean of the College of Agriculture from 1903 until his retirement in 1913. He died in 1954 at the age of 96. Recognized internationally, Bailey was a pioneer in transforming horticulture from a craft to a science. He wrote 65 books, compiled three encyclopedias, and edited scores of other books. Bailey Hortorium and Bailey Hall on campus are named in his honor.



Dale Bauman

Professor Bauman has gained international recognition for his pioneering work in the use of bovine growth hormone. A member of the Cornell faculty since 1978, Bauman has won several awards for his research, including the 1985 Alexander von Humboldt Award for making the "most significant contribution to American agriculture during the previous five years." In 1986, he was awarded a Superior Service Award from the U.S. Department of Agriculture.



Rosario Provvidenti

Professor Provvidenti is an international authority on viral diseases of vegetables and their sources of resistance. A member of the faculty since 1954, he is the second Geneva station scientist honored with a Bailey professorship. Because of his pioneering research on viral diseases in

Chinese cabbage, he was an invited speaker at the first International Symposium on Chinese Cabbage held in Japan in 1980. Since 1984, he has been technical adviser to the Tianjin Academy of Agricultural Sciences in China.



Daniel Sisler

Professor Sisler joined Cornell in 1962. He focuses his research on assessment of technology and policies to boost food production in developing countries, international trade and marketing, domestic agricultural policy and its implications, and the impact of agricultural production and rural employment on the nutritional status of households in Africa and Asia. Widely recognized as an outstanding teacher, Sisler had received many teaching awards including the Distinguished Educator Award from the Council for the Advancement and Support of Education in 1985, the State University of New York Chancellor's Award for Excellence in Teaching in 1975, and the 1964 Professor of Merit Award from the College of Agriculture and Life Sciences.



Professor Steponkus joined the Cornell faculty in 1968. He is recognized internationally as an authority on the cellular and molecular aspects of freeze injury and cold acclimation, and he focuses his research on elucidation of freeze-induced lesions in the plasma membrane and the physical and chemical stresses responsible for injury. His work ultimately will lead to increased plant resistance to freeze injury and the improved protocol for cryopreservation of plant and animal cells, tissues and organs. He is a member of the board of governors of the Society for Cryobiology. ■

Associates Join Alumni Affairs and Development



Walker



Carter

Tina S. Walker, former associate director of Cornell's Career Center, and Lael C. Carter, former associate director of development at the State University of New York's Health Science Center, Syracuse, have been named to the college's Alumni Affairs and Development staff.

As a result of a change in the college staffing pattern to meet alumni and fundraising needs, Dean David L. Call established the positions of director of alumni affairs and development and two associate directors. John C. Sterling '59 has been named director of alumni affairs and

development. Previously he was director of alumni affairs; Glenn O. MacMillen '54 retired a year ago as director of development.

Walker is the new associate director of alumni affairs. At the Career Center, she has been responsible for recruiting and supporting Cornell alumni for the innovative Cornell Connection program. Previously she was projects coordinator at the center and a media specialist at Tompkins Cortland Community College. She earned a B.A. degree from Albany State College, an M.L.S. degree from the University of Pittsburgh, and an M.A. degree from Michigan State University.

Carter is the new associate director of development. Before her development position at the SUNY Health Science Center, she was executive secretary for the SUNY College of Environmental Science and Forestry's Pulp and Paper Foundation and employment interviewer for Syracuse University. She received an A.B. degree from Mount Holyoke College and an M.A. degree from Syracuse University. ■



Arnot Forest Video. David Poland (left), graduate student in communications, teaches the basics of video equipment to a group of 4-H teens gathered this summer at the Natural Resources Youth Action Program at the Arnot Teaching and Research Forest. Under the direction of Diane Held Phillips, extension associate in the Department of Natural Resources, the week-long leadership training conference included teaching youths the use of video equipment to document natural resource issues. Later the young filmmakers will videotape the effects of outdoor recreation on the environment of their own communities. Stephen Goggin, extension associate in the Department of Human Development and Family Studies, coordinated the video component of the program. George Preston, Cornell extension representative, taught the students how to create storyboards, which are rough drawings for laying out the video scenes and action.

Call Appointed to Third Term

Cornell trustees on October 24 reappointed David L. Call '54 to a third five-year term as dean of the College of Agriculture and Life Sciences. Cornell Provost Robert Barker said a review committee unanimously endorsed Call for the unusual third term. Call's deanship since 1978, he said, has kept the college in its "front-rank position."

Dean's Corner: "At the Dean's Discretion"

David L. Call



One important part of the development program of the College of Agriculture and Life Sciences are those funds that come to the college in an unrestricted manner. We refer to them as funds to be used "at the dean's discretion." Discretionary funds allow the dean, myself in this case, to respond to requests and special opportunities that could not be met with our other sources of funds. I thought it might be interesting for you if I reviewed a few of the uses of the discretionary funds over the last couple of years.

One of the categories funded could be called matching funds for new program efforts. A good example of this is a program started in Washington to increase the awareness of school children of the importance of agriculture in the United States. In New York State this Ag in the Classroom project, under the leadership of the Farm Bureau, seemed attractive. Farm Bureau and other leaders came to the college and asked if we could help. We put together a three-way funding package where I allocated \$25,000, the Governor put \$25,000 into the budget of the Department of Agriculture and Markets, and the State Education Department and Farm Bureau also pledged support.

This was a three-year commitment on the college's part. With these funds a team was hired in our Department of Education, and they have prepared curriculum materials for grades three through six and currently are working on grades K through three. These materials have been tested in the school systems and have received an excellent reception by elementary teachers. They fit very well into the existing curriculum. This year the state authorized \$135,000 to take this project to the next level, which is to mass-produce curriculum materials for schools throughout the state. I think this use of discretionary funds has been multiplied many times over and should have a lasting benefit.

Another example of discretionary funds being multiplied is the current program in the Department of Agricultural Economics referred to as the Personal Enterprise and Small Business Management Program. A group of interested alumni and friends of the college supported our idea of adding a course and other activities in this area. Discretionary funds in the budget have been more than matched by additional support from alumni and friends. We have had three highly successful enterprise forums from which the students have learned, in an enjoyable manner, about entrepreneurial endeavors. We also have added a new course in personal enterprise and small business management that has become extremely popular. In the long run, we probably will have to seek endowment support to maintain this program, but I feel the seed money has been well invested.

An example of a program that has been totally maintained with discretionary funds is our Historical Documentation Program. Through an initial grant of \$25,000, which is now down to \$10,000 a year, we have been able to do a large number of oral history tapes of agricultural leaders throughout the state. We also have been able to work closely with the university archivist to see that the historical records of previous deans are well documented and available for scholars and others. This program would not have been possible without the discretionary funds.

A number of times I have used discretionary funds to support minority programs. This past summer, for example, we funded research assistantships for two Southern University minority students who are interested in going into graduate work in the agricultural sciences. The number of minorities, particularly Blacks and Hispanics, interested in the agricultural sciences are very few, so we are constantly looking for means to attract them.

In a number of areas discretionary funds have supported our teaching program. The Forensics Program, which was developed within our Department of Communication, has taken the campus by storm. It has grown well beyond the College of Agriculture and Life Sciences, with students enrolling from nearly every college at the university. We have one of the leading forensics programs in the country, and our teams have done very well in national competition.

For several years, I have used discretionary funds to match up to \$4,000 of scholarship support provided by the College of Agriculture and Life Sciences Alumni Association. Again, this is an example of multiplying other funds.

Discretionary funds have been used to support faculty travel, particularly young faculty. Each year we offer ten fellowships for travel abroad to professional meetings. The first priority goes to assistant professors who are going to deliver a paper at an international meeting. These fellowships have allowed many of our young faculty to broaden their program and enjoy an educational experience that would not have been possible without these special funds.

The student livestock show has been reinstated at the college, and we are pleased that we have been able to foster this fine event with some of the discretionary funds. Participation continues to grow, and it is now to the point where it attracts other funds.

Support for our International Agriculture course 602 allows 40 students to go to Costa Rica for a two-week field experience during intersession. Many students label this course the most valuable experience they have had while at Cornell. Without the subsidy, many could not afford to participate.

I could go on, but the examples are too numerous. The key point is that these discretionary funds give us an edge with respect to our teaching, research, and extension programs that others don't have. We are constantly trying to make the College of Agriculture and Life Sciences a more humane place. Sometimes small grants can reap vast pay-offs in making this not only a more interesting place, but a more exciting place for our students and our faculty.

The willingness of alumni to give the dean discretion is greatly appreciated. The generosity of alumni to the college is one of the things that makes this a unique place. I thank you all. ■



The Du Pont Company has provided support to Cornell since 1918 (except for two years during the Depression). Du Pont representatives, one a Cornell alumnus, visited campus recently to present checks to, among others, the College of Agriculture and Life Sciences for support of the Department of Entomology, the Department of Plant Pathology, and the Division of Biological Sciences. At the presentation were (left to right) Rajendra Bordia M.S. '81, Ph.D. '86, Du Pont, Geoffrey W. G. Sharp, biological sciences, Lew Shumaker, Du Pont, Charles W. White, Du Pont, William Fry, plant pathology, John Sterling, college development, and Ronald Stone, university corporate development.

Private Support to the College

Funds established since the summer issue of *ALS News* (as of Sept. 11, 1987):

Agronomy Endowment Fund has been established by W. Keith Kennedy, Provost Emeritus, to provide annual awards to recognize exceptional performance by a student, staff member, or faculty member in the Department of Agronomy.

Ethel S. Willits Cornell Tradition Fellowship has been established by Dorothy I. Willits in memory of her mother. The fund will provide financial aid to worthy, needy students majoring in plant pathology.

Harold L. "Cap" Creal Fund established by Mrs. Mary Creal and family members to aid worthy and needy ALS students, preferably members of the Alpha Gamma Rho Fraternity. Selection will be based on leadership, academic performance, financial need, and interest in the field of agriculture.

Sydney A. Asdell Memorial Fund initiated by his children, Philip and Mary, and friends and colleagues. The fund will support the Sydney A. Asdell Memorial Lecture to be presented annually at Cornell by a distinguished worker in the field of mammalian reproductive biology.

Funds in process since the summer issue of *ALS News* (as of Sept. 11, 1987):

J. M. Kaplan Vineyard Research Program Fund initiated by the J. M. Kaplan

Fund to ensure continuity of research vital to the economic benefit of the grape industry. Research will be based on the recommendations of the Grape Production Research Board of New York State grape growers, who are close to emergency needs. The agreement is being processed; funds have been received. Jack Kaplan was a renowned leader in the grape industry.

Leon Rubin Memorial Award has been initiated by a gift and pledge from Philip Gelert '68 in honor of his father-in-law. Recipients will be chosen for their spirit of entrepreneurship, salesmanship ability, and possible interest in foreign countries. An agreement has been drafted.

Update:

Stan Warren Teaching endowment. Pledge payments are arriving close to schedule. New gifts have been received. There are 955 donors with cash and pledges totaling over \$371,000. The first award from the endowment is being used this semester by ten students of Professor Wayne Knoblauch's class to study agricultural production and management in the Columbia River basin in the state of Washington. ■

John C. Sterling, Director
Alumni Affairs & Development

Judy P. Lewis
Administrative Assistant

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

Dean
David L. Call

Associate Dean
Kenneth E. Wing

Director of Alumni Affairs and Development
John C. Sterling

Associate Director of Development
Lael C. Carter

Associate Director of Alumni Affairs
Tina Walker

Editor
James P. Titus

Writer
Metta Winter

Designer
Lorraine M. Heasley

Production Coordinator
Donna S. Vantine

Photographers
Donald Albem
Harvey Fetschneider
David Ruether
John C. Sterling

Contributing Writers
Mark Eyerly, Roger Segelken, Yong H. Kim,

Editorial Assistant
Jeanne Astor

Student Writers
Cathy Keene '88, Steve Werblow '88

Correspondence should be addressed to John Sterling, Alumni Affairs, Cornell University, Ithaca, NY 14853-6901.

Produced by Media Services at Cornell University.
11/87 35.2M LL 871446

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Canada)
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(office)

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STATE COORDINATORS

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(217) 762-4301 (home)

Neal E. Hall M.D. '78
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Alumni Activities in the Districts



William McKee '71 (left), new director for Onondaga, Oswego, Cayuga, and Seneca Counties, makes alumni plans with district leadership team members, L-R, Lynne Kuney '74; Kenton Patchen '71; Mark B. Mead '71; Robert Galloway '74; Michael Forward '81; Scott Potter '85; Leah M. Macleod '83; and Debra Ward '76.



District 10 (Franklin, Clinton, Essex, and Hamilton Counties) plans a dean-alumni get-together for May 5. L-R, Robert Gallinger '56; Catherine Butts '81, district director; and Elaine Newcomb '64.



Alumni planning student recruitment efforts in New York State's North Country. Standing, director Stephen Teele '72; seated, L-R, William Roddey '57; and Douglas Brodie '55; with Susan Miller, ALS Admissions Office.



Alumni at Virginia Meeting

Several college alumni got together in Blacksburg, Virginia, during the National Agricultural Alumni and Development (NAADA) annual meeting and picnic. Standing, L-R, Albert Beard, Jr. '52, ALS Alumni Association president; John C. Sterling '59, director of alumni affairs; Stephen H. Putman '44; Anthony C. Maier '38; Forrest W. Thye '68; L. W. Frame; Laura VanderVliet '89 and Patrick Spoth '88 student directors; seated L-R, Margaret Beard '52; Mrs. L. W. Frame M.S. '51; Mary Putman; Nancy Collins Sterling '59.



Inaugural New Mexico Meeting

The first annual get-together of Cornell alumni in New Mexico was held August 29. Fourteen charter members, graduates of the college between 1929 and 1975, met at the home of Bob and Gerry Stephens in Albuquerque. After refreshments and a short meeting, the group adjourned to the County Line Restaurant for a barbecue dinner. Top row (L-R): Wendell Oaks '75, Lorraine Hoffman Marnell '48, B. L. Herrington '26, Neal Jensen '66 and Mary Webb Jensen. Harold Newlander '49 and Betty Newlander, Hal Young '48 and Doris Young. Front row: (L-R) Bob Gieblitz '52, Robert Stephens '48 and Gerry Stephens, and Denise Meridith '73, state ALS alumni coordinator. Also attending was Susan Oaks.

Cornell Tradition Finds 2,500 Summer Jobs

In just four years, a job program begun by university alumni has found summer jobs for more than 2,500 Cornell students. Working in career-related positions, the students have earned over \$5 million since 1983.

Concerned alumni of Cornell founded the program, Cornell Tradition, to encourage and assist students who fund their own education through employment. The Summer Job Network, one of four components, is a network of Cornell students seeking career-related summer employment and organizations offering such positions.

The network gives students the opportunity to receive valuable work experience at the undergraduate level and gives employers a substantial resource to start projects, expand horizons, or catch up with present objectives.

If your organization has an internship program, normally hires students during the summer, or needs extra help to complete projects of interest, then the Summer Job Network could help you find experienced, reliable students skilled in almost any field.

All summer jobs must be career-related, full-time, paid commitments. Students must work at least 35 hours a week for at least eight weeks, between May 19 and August 24, 1988. For more information, call Betty Ganung or Paula Long at 607-255-3497.

Alumni Bylaws Pass by Large Margin

By a 1067 to 36 vote, revisions to the Alumni Association Bylaws passed, permitting the 80-year-old college alumni organization to expand its services and leadership to the college and to our 33,000 alumni. There were 35 valid ballots.

"Furthermore," said Albert Beard, association president, "written suggestions from alumni of the college around the world for future changes will be reviewed by the board for possible inclusion at a future date. Alumni certainly devoted great attention to the proposed revisions, and we appreciate their careful analysis, suggestions, and vote."

Ballot tabulations were completed by Rochelle Woods '74 and Finley Steele '36.

Research Briefs

Gene gun. Geneva Experiment Station biologists Theodore M. Klein and John C. Sanford have developed a gun that shoots genes into living plant cells, which increases the ability of improving plants. Similar to a shotgun, the gene gun has been used to fire small metallic particles coated with deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) into plant tissues at more than 1,000 miles an hour—without damaging the plants. Assisting in development of the gun were Edward D. Wolf, director of the National Nanofabrication Facility at Cornell, and Nelson K. Allen, a facility research machinist. Funding by the Cornell Biotechnology Program, the U.S. Dept. of Agriculture, and the Rockefeller Foundation.

Consolidating school districts. Most students in small and rural schools perform as well or better than students in larger schools, professors Emil J. Haller and David H. Monk have found. Consolidating small school districts in New York State would bring little benefits to these students, who already score well in test scores and placement in advanced Regents courses. Since 1958, there have been about 235 school consolidations in the state, mostly because of claims that larger school districts are more efficient and ensure educational equity. The researchers, both in the Department of Education, contend otherwise; they say there is no single optimal school or school district size. Furthermore, school consolidation often closes the one remaining institution in a small village.

To avoid poison, open a vein. The milkweed plant wards off many insects with



its toxic milk, but Cornell biologists have discovered a countermeasure—insects simply bite through the veins that carry fluid to the leaves. After the leaf drains, they settle down for a safe meal. Vein-cutting by a long-horned beetle and by caterpillars of certain moths and butterflies was observed by David E. Dussourd, now at the University of Maryland, and Thomas Eisner, the Jacob Gould Schurman Professor of Biology. "There are probably many insects in nature yet to be discovered that have special strategies for disarming plants before feeding on them," Eisner said. How they know

A volunteer in the flavor chemistry laboratory responds to airborne puffs of odor-active compounds in fruit juice.

which plants require vein-cutting remains a mystery. Funding by the Bache Fund of the National Academy of Sciences and the National Institutes of Health.

Sniffing for science. Cornell tests confirm that plastic orange juice containers do, in fact, absorb limonene, which orange juice packagers thought was taking away the flavor of fresh-squeezed juice. But limo-

nene is not the key ingredient, according to Anna Belle Marin, graduate student in the college's Food Science Department, and Terry E. Acree, professor of food science and technology in Geneva. "Limonene in orange juice is not important at all to the human nose," Marin told the American Chemical Society national meeting in September. Using a technique called Charm analysis ("charming" factors attract people to a flavor), they determined that human noses can hardly detect limonene at all in orange juice. Other substances were shown to contribute more to the familiar o.j. odor, and Charm analysis at Cornell continues to sort them out.

Disturbed woods. Timothy J. Fahey, assistant professor of natural resources, directs a multi-university forestry study that recently received a \$2 million grant from the National Science Foundation. A team of ecologists headed by Fahey will use the grant to chronicle results of large disturbances to woodlands, such as the technique of whole-tree harvesting. The five-year study will focus on the Hubbard Brook Experimental Forest, north of Boston in the White Mountains of New Hampshire, where occurrence of acid rain was first documented in North America. The study is part of NSF's Long-Term Ecological Research program and involves Cornell, Syracuse University, the University of Pennsylvania, and Dartmouth College. ■

Graduate Students Learn Public Policy in Albany

Four doctoral candidates in the Department of Rural Sociology have been awarded fellowships that expose them to the inner workings of state government. Susan Kenny, Melanie Dupuis, Susan Turnquist, and Michael Hattery have been given the chance to practice their expertise in New York's state capital while gaining first-hand experience in public policy making.

"These fellowships send an important message," said Charles Geisler, associate professor of rural sociology, who has worked closely with all four winners. "Some of our brightest students are reaching for fellowships in Albany and setting examples for others to do the same. We need high-quality people in the public sector as one of several ways of making applied research respectable. I predict that Kenny, Dupuis, Turnquist, and Hattery will each offer intellectual leadership in the public policy area in their careers."

Susan Kenny is a budget fellow with the State Division of the Budget. "This fellowship is a primary means of recruiting minorities and women into the division," said Kenny. "Essentially it places a person in an entry-level position as a budget examiner." As such, Kenny receives, analyzes, and makes internal recommendations on budget requests from the State Liquor Authority, the Banking Department, and the Office of Parks and Recreation. Her recommendations eventually become part of the governor's budget, which is presented to the legislature. Once the budget is passed, Kenny works with these agencies in program implementation.

Kenny's first experience in Albany was a seven-month public policy fellowship in 1986 with the Center for Women and Government. She worked as a legislative aide to Richard Gottfried, assemblyman from midtown Manhattan. Her current fellowship runs through 1989.

Melanie Dupuis is participating in the State Assembly Graduate Scholar Program, which gives academics an opportunity to see how the process of public policy is carried out. In return, it provides legislators with staff who have the latest expertise in various technical fields. Dupuis, who is working with the Agriculture Committee on Biotechnology, is a specialist in agricultural technology policy.

In addition to analyzing bills, she is assessing aquaculture as a potential industry in New York State and writing a report on the science and policy issues surrounding bovine growth hormone (BGH). In this report Dupuis is pulling together various predictions about the effect of BGH on the state's farms and looking at why some are so dire.

"People treat technology as though policy has no control over it," she said. "In fact, there are a wide range of policies that could be pursued to enable us to increase efficiency without completely changing our farm structure." She contends that disastrous effects would be less likely to happen if there were policies that enabled experts to work together with farmers in developing management techniques for the use of BGH.

Susan Turnquist, who participated in the Graduate Scholar Program last year as a specialist in water and toxic substance issues, has been awarded a 1987-88 fellowship from the Nelson Rockefeller Institute of Government. This fellowship gives a female graduate student doing a dissertation on public policy issues in New York State access to policy makers. Turnquist is examining how environmental risks are assessed and managed, particularly how public opinion enters these processes.

In a study on groundwater contamination, Turnquist will focus on how socioeconomic and gender issues affect the way policy makers view public concern.

"Environmental risks tend to affect different groups in society in different ways," she said. "Lower income people tend to be both more exposed to risk and have fewer resources to deal with it. Also, it is usually women, especially women not employed outside the home, who mobilize community action. Many times these women are dismissed as 'hysterical housewives.' I'm interested in whether their efforts help to focus serious attention on the problem or cause it to be trivialized."

Michael Hattery also received a 1987-88 junior fellowship from the Rockefeller Institute. His research deals with revenue support options for local governments. "I've been working on a project with faculty in the Department of Agricultural Economics to come up with a better approach to distributing revenue sharing to local governments in New York State. I want to compare that with local governments' ability to levy income taxes."

Hattery has been a full-time staff member of the college for five years and has worked with the Local Government Program for the past two and a half. This Cornell Cooperative Extension program provides information and education about local government administration. The fellowship allows Hattery to continue his work on behalf of small governments throughout the state. ■

Metta Winter

McKnight Foundation Award

The McKnight Foundation has awarded a \$600,000 grant to a team of college scientists studying genetic shortcuts in the production of hybrid seeds. Coordinated by Maureen Hanson, associate professor of plant molecular biology, the interdisciplinary group includes June Nasrallah, assistant professor of plant biology, Michael Nasrallah, senior research associate in plant biology, Dominick Paolillo, professor of plant biology, Mandayam Parthasarathy, professor of plant biology, Steven Tanksley, associate professor of plant breeding and biometry, and Ray Wu, professor of biochemistry, molecular and cell biology.

Their research will focus on two phenomena that produce reproductive barriers in flowering plants: self-incompatibility and cytoplasmic male sterility. Self-incompatibility prevents a flower's pollen from fertilizing eggs in the same flower. When cytoplasmic male sterility occurs, no mature pollen is produced by the plant at all. Altering plants genetically to carry either of these traits could dramatically reduce the labor costs in producing hybrid seed.

The McKnight Foundation awarded only six plant training grant awards, but they gave many other grants for science, chemistry, the arts, and other areas. ■

Metta Winter

In August 1986, 5,000 3½-inch brook trout fingerlings were placed in a plywood tank lined with a food-quality plastic liner. This tank, another one used later to test rearing Atlantic salmon, and a settling tank are hooked together to form a closed-system module. Fifteen thousand gallons of water flow through the fish tanks, into the settling tank, through a rock-bed biological filter, then back into the fish tanks.

The fish have been under the day-to-day care of research support specialist Glen Snapp '86. Fish pathologist Paul Bowser, associate professor of aquatic animal medicine in the College of Veterinary Medicine, is responsible for fish health and the prevention and control of disease. By May the brook trout had reached a marketable size of 10 to 11 inches. "They did amazingly well," said Timmons.

Fifteen hundred trout were shipped to seven supermarkets in upstate New York during the month of June. The transit from the rearing phase to marketing is handled by Joe Regenstein, professor of food science. His responsibility is to safely and efficiently process the fish once they leave the module. "We get to do the dirty work," he said. His graduate students gut and gill the fish, ice them down, and prepare them for delivery. Regenstein also conducted taste tests. Results indicate no discernible difference between trout reared in the reuse system and those reared in a conventional manner.

Professor of Marketing Gene German is in charge of market testing. It is his job to find out whether enough people will buy brook trout to make commercial rearing worthwhile. The fresh trout generally available in New York stores is rainbow trout, which is reared in Idaho. Demand is known to be great.

Initial findings of the market testing indicate that the sales potential for New York-reared brook trout is good if the fish weigh at least a half-pound. But they must also be of a higher quality or be fresher than the competing Idaho trout.

A surprise finding in the study was the very strong consumer interest in pan-size, white meat Atlantic salmon.

Carole Bisogni, associate professor of nutritional sciences, participated in another component of the marketing phase by consulting with German on designing consumer interviews. "I have a long-term interest in fish and how it fits into a healthy diet," Bisogni said. "We want to find out what consumers think about this." The interviews have elicited information on a variety of other issues, such as a preferred form, i.e., heads on or off, gutted, gilled, etc. Results are available in the full project report completed in September.

In spite of success in the program's first year, Youngs and Timmons caution that more research is necessary to assure the feasibility of their approach. "Intensive aquaculture is where the poultry industry was 25 years ago," they said. It's a risky process with many parameters, such as water temperature and a fine water chemistry balance, that must be kept in strict and continuous control to support fish life.

Two food companies have contacted the Cornell Aquaculture Program about how to use it commercially. Another good sign is the way the program's leaders have worked together. Joe Regenstein summed it up: "The beauty of this is that it's been a real team effort, with cross-fertilization and all the things that everybody on paper say you're supposed to do. We actually got together and did it. We cooperated in a way that's been a lot of fun."

Funding for the Cornell Aquaculture Program came from the New York State Department of Agriculture and Marketing and the Cornell Agricultural Experiment Station. ■

Metta Winters



The Pounder family at the dedication of the heritage garden at the Plantations in memory of Ronald U. Pounder '60. Mrs. Ronald U. (Betsy) Pounder stands at the center. From left to right are their son Gregory; daughters Shelley, Denise, and Carol; nephew Brian Scantlebury; and son Ronald, Jr.

Pounder Heritage Garden: Cornell Plantations' Latest

Metta Winters

Jacob's Cattle beans, Seneca Horn potatoes, and Oxheart carrots are vegetables most of us have never seen. American Indians grew these varieties of beans and potatoes long before white settlers brought the first orange-rooted carrot. They are among the ancestors of today's modern varieties, heirlooms all, but lost in the shuffle of selective breeding.

Cornell has a new place to bring these plants back to life. It is the Ronald U. Pounder Heritage Garden, dedicated August 21, and supported by a gift from Betsy Pounder in memory of her husband, college alumnus Ronald U. Pounder '60. The Heritage Crop collection contains vegetable varieties that were grown in kitchen gardens of the nineteenth century.

In planning the garden, horticulturalist Sue Sanders consulted the 1878 edition of *Vick's Flower and Vegetable Garden*, along with other gardening books and periodicals of the day, to find varieties of vegetables the common people grew. Many were grown much earlier.

"Cayenne Long Red pepper, for example, was first mentioned in print in 1540 A.D. The Jacob's Cattle bean has been around since the 1200s," Sanders said. She chose these and 130 other varieties to create an educational display for the enjoyment of school children and scholars alike, but especially for home gardeners.

The two-thirds-acre garden, located on the site of what was once the Fruit and Flavor Garden across from Emerson Field in the Cornell Plantations, is a piece of living history and more. It's a place where today's gardeners can discover rare plants and unique cultivation methods that can add individuality and flair to their own gardens.

"I tried to do things that would be interesting to a novice and yet include others that an experienced gardener might look at and say, 'Hey, there's an idea!'"

Take coppicing for example. This an-



Horticulturalist Sue Sanders shows an heirloom variety of grapes grown at Cornell Plantations.

rather they see it here than in their own gardens."

Because twenty-century agribusiness requires breeding varieties appropriate for mechanized cultivation, mass harvesting, and long-distance transportation, much of the variation in size, color, and taste of vegetables has been lost, Sanders said. The Heritage Collection keeps this variety through blue potatoes, stubby orange carrots weighing nearly a pound, and onions more pungent than today's sandwich varieties.

"In developing a hybrid variety," Sanders said, "the final product has a very narrow genetic base, whereas the older, open-pollinated varieties maintain a tremendous amount of genetic diversity. It's important to keep these different traits available for developing new varieties to meet future needs—for resistance to unforeseeable diseases, or changes in environmental conditions such as acid rain or a decrease in the ozone level."

In planning the garden, Sanders was true to the nineteenth century custom of adding color by growing herbs, fruits, and flowers alongside the vegetables. Because heirloom flower seeds are difficult to come by and tend to be less floriferous, Sanders chose currently available varieties of bachelor buttons, snapdragons, cleome (spider plant), pinks, cosmos, and other flowers our foremothers were partial to. There are also about 10 or so herbs that were grown for culinary, and often medicinal, use. The fruit—blueberries, raspberries, strawberries, grapes, and rhubarb—were staples of the nineteenth-century household, as were apples. In the Heritage Garden, as in the small gardens of that day, the apple trees are espaliered; by pruning and tying, their branches are trained to grow along wire trellises.

A list of heirloom seeds and their source, and a bibliography on heritage gardening is available by writing the Cornell Plantations, One Plantations Road, Ithaca, New York 14851-9978. ■

Alumni Return to Campus for ALScapades and Outstanding Alumni Banquet



Eighteen Outstanding Alumni attended the Friday evening banquet during ALScapades weekend. Seated, left to right, Albert R. Lounsbury '55, Stanley Warren '27, Joseph King '36, and E. Stanley Shepardson '36. Standing, Robert V. Call, Jr. '50, Richard C. Call '52, Robert S. Smith '42, Frank Wiley '44, Glenn Edick '40, Clifford Luders '38, John W. Mellor '50, Norman W. Allen '46, H. Joseph Pendergrast '38, C. William Severinghaus '39, Bernard Potter '43, Daniel M. Dalrymple '27, Erton Sipher '43, and Donald Wickham '24. The past recipients gathered to honor 1987 award recipients Allen, Mellor, Severinghaus, Shepardson, and Smith.



1986-87 Alumni Donor Roster



The 1987 listing of alumni contributions to the college will include two new categories of giving to make our reporting more complete: Gifts up to \$100. Gifts of \$50,000 and over. Look for the donor list in the fall 1988 issue of ALS News. Corrections? If there are errors in this listing, please send corrections to the Office of Alumni Affairs and Development, 242 Roberts Hall. We will publish them in the next issue.

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"Teamwork associated with expanded efforts by the College Alumni Association, funds such as the Stan Warren Fund, enthusiastic alumni leadership, and local alumni activity such as deans-alumni get-togethers all contribute to the success of the past year.

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Robert Nagler Has Fun by Giving Something Back



Making a gift for something specific—whether it be to buy a tree or to establish a scholarship—can be a uniquely satisfying experience, according to Robert Nagler '50. "You can taste it," he says. And that you can be one of the reasons why Nagler gives and keeps on giving. But this wasn't always so.

In the years following graduation from Cornell, Nagler took what he calls a "quasi-Mormon" approach to giving. "Although I'm not a Mormon, I felt as they do, that being part of society carries an obligation to help others less fortunate than yourself." So he systematically gave a percentage of his salary to Cornell and a number of other institutions and charities that were important to his life—the Boy Scouts, public television, his hobbies of steamship and film preservation.

"Cornell touched a nerve. If I hadn't gone there I would have had a totally different life. I came from rather poor beginnings, and at Cornell I was exposed to a level of society that broadened my life in ways that wouldn't have occurred otherwise. I was able to take advantage of that. Because I had one or two minor scholarships, I felt there was a real obligation to give something back when I had taken something out."

Over the years, as Nagler became more successful in the world of investment banking, he discovered that giving can be a lot more than meeting an obligation. While he says this is still in the back of his mind, he now finds that there are rewards, indeed real pleasures, to be derived in the process.

"I don't know that a lot of people understand or appreciate the fun part of giving, that when you give, you get something back." One source of fun is acting as an adviser to an in-house charitable foundation he started with his partners at Oppenheimer and Company. Nagler's role is to make gift recommendations to the trustees of this

self-supporting foundation. "Some of the recipients become pet charities and I devote time to galas, theater parties, testimonials, dinner dances. All of these are fun."

"There are satisfactions, too: when I realized that just \$95 would send a poor child to camp for a week; when a new, worthy cause surfaced, such as a home for the blind in a neighboring community on Long Island; when I went to Radio City Music Hall and saw a newly struck print of a classic film, 'A Star Is Born,' after I'd given to the American Film Institute to help find missing footage and to replace inflammable nitrate stock with safety film."

Nagler's experience in giving and getting something in return can also be seen in recent gifts to Cornell. His first academic major was ornithology, and now that he is semi-retired there is time to rekindle this interest. "The Laboratory of Ornithology is a new thing that I've just started giving to that has become fun. I've become acquainted with the principals at the lab, had them to my house, talked about a couple of projects to raise money. I've enjoyed this."

So too with the Nagler Family Scholarship, which he established last year to support a worthy student from Suffolk County who is studying some aspect of production agriculture. "Getting a letter from a student who has won a scholarship like this is very gratifying."

But you don't need the means to establish a scholarship or mount a fund raising campaign. In the early years Robert Nagler gave only \$100. "We all take a lot out of society, but there is no need to give until it hurts. Giving as much, or as little, as we can afford helps to put some of that back. So, write those checks, give some time, have some fun, meet a number of interesting people and, in the process, help others less fortunate than yourself." ■

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Mr. C. Howard Harrison '38
Mrs. Karen N. Harrison '80
Mr. Martin B. Harrison '60
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Mrs. Shelby F. Harrison '86
Mr. Clyde L. Hart '44
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Mrs. Deen E. Hartloff '53
Mr. Nathaniel B. Hatcher '79
Dr. Donald W. Haverick '63
Mr. Clayton W. Haverly '69
Mr. Wayne C. Hartung '84
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Mr. Robert E. Harvey '42
Mrs. Robert E. Harvey '42
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Mr. Douglas B. Hazlett '76
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Mr. Walter J. Henry '48
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Mr. Peter E. Hiller '70
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Mr. William G. Hoffmann '62
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Mrs. Karen Muno Hoffman '77
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Mr. Kenneth W. Hohwald '74
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Mr. Cameron C. Houser '76
Mrs. Signe K. Houtchins '63
Mrs. Jean A. Houghton '62
Mrs. Peter K. Houghton '67
Mrs. James A. House '63
Mrs. John A. House '65
Dr. Courland R. Howard '66
Mr. Donald A. Howard '73
Mr. Gregg W. Howard '82
Mr. John L. Howard '57
Mr. Kevin E. Howard '31
Mr. Francis G. Howarth Jr. 'GR
Mr. Gregory W. Howe '78
Mr. Holly L. Howe '72
Mr. James A. Howe '52
Mr. Ralph A. Howett '57

Mr. Earl D. Howes '41
Mrs. Louis M. Howie '51
Mrs. Virginia M. Howie '38
Dr. Harlan J. Howlett '50
Mrs. Harlan J. Howlett '48
Mr. Thomas C. Howlett '44
Mrs. Laurence VanHise Howley '70
Mr. Thomas L. Hoy '70
Mr. James E. Hoyt '74
Mr. J. Hoyt '79
Dr. Theodore C. Hsiao '55
Why Rolland '89, anyway;
Mary Holland '83, grant!
Hugh Holland '83, grant!
"It's going to be very useful be-
cause I'm an older student—I'm
32—and came back to school after
a career as a professional potter. I
make only a minor income from my
pottery business now and work on
campus as well, so I'm quite busy.
It doesn't always have time to make
enough money to make ends meet.
It would be very difficult for me to
go to school without the
scholarship."
Mrs. Thomas T. Hau 'GR
Mr. Gerald R. Hubbard '60
Mr. John H. Hubbell '67
Mr. Stephen H. Hubbell '38
Mr. Jonathan H. Huber '83
Mr. Charles H. Huber '54
Mr. Peter D. Huber '75
Mr. Scott E. Hubert '81
Mr. Robert M. Huber '66
Mr. Gordon H. Huckle '52
Mrs. Leslie J. Hudson '75
Mr. Steven L. Hudson '77
Mr. John W. Huemmoeder '69
Mr. Howard J. Huey '50
Mrs. Robert P. Huey '47
Mr. Robert E. Hughes '51
Mr. Donald W. Hughes '37
Mr. John E. Hughes '63
Mrs. Martha Debra Hughes '68
Mr. Richard C. Hughes '50
Mr. William D. Hughes '77
Liz. William W. Huling Jr. '68
Mrs. Douglas W. Hulle '72
Mr. Darrell L. Hultinger '73
Mr. Irving H. Hulse '30
Mr. Glenn O. Hummel '42
Mr. Jon R. Humphrey '77
Mr. Lee S. Humphrey '33
Mrs. Charles S. Hunt Jr. '49
Mrs. Charles N. Hunt '39
Mr. Kenneth R. Hunt '50
Mr. Peter D. Hunt '86
Dr. David H. Huntington '47
Dr. Irene Huntington '44
Mr. Paul G. Huntington '54
Mr. Peter L. Huntington '55
Mr. Peter L. Huntington '55
Mrs. Gene R. Huntman '65
Mr. Jerome K. Hunt '36
Mr. John P. Hunt '51
Mr. T. Norman Hunt 'GR
Mrs. Sara L. Hurbit '80
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Mr. William S. Hutchings '35
Mr. Hal P. Hutcherson '76
Mr. Jeffrey G. Huth '75
Dr. Joseph O. Huizinga '50
Dr. Donald G. Hutton '42
Mr. Ralph G. Hutton '28
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Mr. Arthur J. Huxley '54
Mr. David F. Huxtable '59
Mr. Duncan D. Huyler '83
Mr. J. Edgar Hyatt '25
Mr. William S. Hyman '64
Dr. Theodore Hymowitz '55
Mr. Laurence E. Ide '32
Mr. Marc C. Igler '54
Mrs. Frederick H. Immen '48
Mrs. Eva C. Immergut '81
Mrs. Lewis S. Ince '71
Mr. Steven C. Ingham '83
Mr. Burton F. Ingus '40
Mrs. Luis Iniguez 'GR
Mr. Robert A. Ingleman '67
Mrs. Saul Intraub '65
Dr. Gary N. Inwald '75
Mr. Winor D. Ireland '55
Mr. G. William C. Irish '29
Mr. Lehard W. Irish Jr. '41
Miss Margaret T. Irish '41
Mr. Stephen L. Irish '72
Mr. William L. Irwin '70
Mrs. Madelyn C. Isaacs '75
Linda A. Isaman '84
Mr. William C. Isler '35
Mr. Arthur P. Ivie '51
Dr. Frances S. Ivier '61
Dr. John W. Jack '62
Mrs. Dale R. Jackson '58
Dr. Charles D. Jackson '54
Mr. Leonard J. Jackson '57
Mr. Peter F. Jackson '63
Mr. Robert P. Jackson '74
Mr. R. P. Jackson '59
Mrs. Ross P. Jackson '59
Mr. Miles B. Jacobs '23
Dr. Nicholas J. Jacobs 'GR
Dr. Linda B. Jacobsen '68
Rev. Myron E. Jaencke '48
Mrs. Anita B. Jaffe '85
Mr. Joseph Jaffe '66
Mrs. Susan W. Jaffe '73
Mrs. Ray H. Jakobovits 'GR
Mrs. Mari A. James '81
Dr. Geoffrey M. James '74
Dr. Joseph M. James Jr. '64
Dr. Sue Murray James '77
Mr. Fred T. Jamison '60
Mr. Graham S. Jamison '52
Mr. Timothy W. Janatis '67
Mr. Jules Janick '73
Mr. Frederick J. Jannett Jr. '71
Mrs. Frederick J. Jannett Jr. '71
Mrs. Martha S. Jansen '51
Mrs. Priscilla H. Jaquith '30
Miss Katherine M. Janssen '76
Mrs. Edgar N. Jay '41
Mrs. James M. Jayko '74
Mr. Donald L. Jayne '61
Mr. Carl F. Jennings '55
Mr. Thomas K. Jeffers '63
Dr. David A. Jefferson '67
Dr. David H. Jenkins '73

Mr. William R. Jenks '70
Mr. Schuyler T. Jenkins '78
Mrs. Howard K. Jennings '36
Mr. Norman R. Jennings '50
Mrs. David J. Jennette '63
Mrs. Joyce H. Jensen '76
Mrs. Laurence E. Jentes '65
Mr. Dana E. Jerrard '80
Helen L. Jervis '29
Mr. Paul Jensen '65
Mr. Donald L. Jewett '50
Mr. Richard W.D. Jewett '24
Mr. Robert T. Jewett '41
Mrs. Patricia L. Jewett '50
Mr. Stephen E. Joel '76
Mr. Robert E. Joehning '59
Mr. Robert A. Johnson '69
Mr. Stephen E. Johnson '78
Mr. Oyvind F. Johndrow III '78
Mr. Arvian R. Johnson '54
Mrs. David I. Johnson '51
Mrs. Jarmen G. Johnson '66
Mr. David C. Johnson '76
Mrs. Donald M. Johnson '52
Mrs. Dorothy M. Johnson '38
Mrs. Ebertha R. Johnson '32
Dr. Ellen L. Johnson '68
Mr. Eric C. Johnson '68
Mr. George K. Johnson '39
Mrs. Gordon E. Johnson '49
Mr. James T. Johnson '78
Mr. Thomas E. Johnson '71
Dr. Lisa Wierzbicki Johnson '83
Mrs. Mary Mulvaney Johnson '85
Dr. Paul K. Johnson '58
Mr. Michael B. Johnson '70
Dr. Carl K. Johnson '75
Mr. Raymond E. Johnson '54
Mrs. William W. Johnson '75
Mr. Robert A. Johnson '58
Mrs. Susan L. Johnson '66
Mrs. William T. Johnson '77
Mrs. Ellen M. Johnson Fay '61
Mrs. Cecily D. Johnson '68
Mr. Clyde E. Johnson '75
Mrs. Clyde E. Johnson '35
Mr. Donald H. Johnson '49
Mr. Gerald C. Johnson '62
Mrs. Carol Jolly '65
Col. David C. Jolly '41
Mr. William C. Jolly '64
Mr. R. Steven Jones '68
Mr. Robert S. Jones '32
Mr. Cornelius C. Jones '53
Mrs. Elaine S. Jones '86
Mr. Evan L. Jones '36
Dr. Gerald M. Jones '62
Mr. Gordon E. Jones '43
Mr. Lynn A. Jones '74
Mr. Robert A. Jones '74
Mr. Robert B. Jones '30
Mr. Robert H. Jones '83
Mrs. Suzanne R. Jones '56
Mr. Terence R. Jones '73
Mr. Thomas R. Jones '64
Mrs. Samuel F. Joor Jr. '24
Mr. Patrick C. Jordan '75
Mr. Michael R. Jordan '49
Mr. William K. Jordan '45
Mrs. Jane S. Jorgensen '49
Mr. Kenneth R. Jost '51
Mr. Craig A. Joseph '80
Mrs. Paul A. Joseph '76
Mrs. Kathryn A. Joseph '87
Mrs. Jeanne A. Jost '56
Mr. Anthony F. Joy '43
Mr. Stephen J. Joy '51
Mrs. Phyllis S. Joyce '80
Dr. Edward J. Joyce '74
Mr. Marlene R. Juran '74
Mr. John M. Jurell '81
Mr. Edward R. Jurst '80
Mrs. Edward L. Kabele '67
Mr. Sidney Kachel '70
Mr. Gary E. Kaczor '80
Mrs. Dugger W. Kadis '56
Mr. William Kaegbein '44
Mr. Russ E. Kaegbein '67
Mr. John J. Kahabka '43
Mr. Alfred E. Kahn '56
Mrs. Lawrence A. Kahn '68
Dr. Lawrence A. Kahn '68
Dr. Robert F. Kahrs '62
Mr. Seymour A. Kaizer '42
Mr. Cameron J. Kaizer '69
Mrs. Elizabeth A. Kaizer '86
Mrs. Lisa S. Kalinowski '78
Mr. Robert A. Kalish '52
Mr. Jay H. Kamin '77
Mrs. Linda D. Kane '84
Beth Fine Kaplan '78
Mrs. David C. Kaplan '69
Mr. Jay B. Kaplan '71
Mr. Jay E. Kaplan '54
Mr. Robert L. Kaplan '69
Mrs. Susan Kaplan '61
Mr. William Kaplan '43
Mr. Harold A. Kappel '39
Dr. William G. Kappel '75
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Mr. Patrick T. Karli '74
Mr. Franklin F. Karn '36
Mr. Elina R. Karnis '54
Dr. Meryl Levy Karol '61
Mr. William S. Karol '79
Mrs. Nancy W. Karol '63
Dr. Eric H. Kase '74
Mr. Raymond T. Kase Jr. '74
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Dr. Eric H. Kaser '59
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Mrs. Thomas E. Kazmierczak '70
Mr. Peter M. Keane '52
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Mrs. Laurene M. Kelly '80
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Mr. Justin H. Kramer '53
Mr. Morris Kraper '40

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Mrs. Jean Hinkelman Krasnow '68
Mr. Ronald S. Krasnow '77
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Dr. Paul E. Kross '73
Mr. D. Harvey Krouse '25
Mr. Neil W. Krouse '59
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Mrs. Eve Kucaba '79
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'86-'87 Student Recipients of ALS Awards

We proudly announce our student recipients of scholarships, prizes, and awards for the 1986-87 academic year. This represents our first general publication of the many funds in our college and the students who have benefited from the funds. Alumni and friends help make these awards possible. A fund can be increased by a gift to the college in the name of the fund. Send gifts to: ALS Development, 242 Roberts Hall.

College of Agriculture and Life Sciences at Cornell University

(Year of graduation follows name; GR indicates graduate student)

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John W. Laver Memorial Fund: Michael H. Gilbert '87 Pound Ridge, NY; Alan Jackson '87 St. Glen Head, NY; David R. Quast '87 Lockport, NY; Corinne Smith '87 Ithaca, NY; Liza P. Wilson '87 Ithaca, NY

Leon Foundation Fund: Douglas B. Davis '89 Delta, UT; Lorene B. Lamothe '88 Lunen-

burg, MA; James C. Richardson '88 Chalfont, PA

Wilhelmine Lind Memorial Fund: Jennifer J. Schappach '88 Carmel, NY; Wendelyn L. Wydra '90 Mansfield, PA

Marvin L. Linder Fund: Steffanie K. Gay '89 Cambridge, MA; Sharon L. Gombas '90 Freeville, NY; Jennifer J. Schappach '88 Carmel, NY; Wendy E. Smith '89 Canastota, NY; Young Suh '89 New York, NY

T. J. Lipton Foundation Fund: Gary J. Rinkus '88 Hanover, MA

Robert N. Marshall Memorial Poultry Fund: Gisela Erf GR Corvallis, OR; Caryl Greenfield GR Corvallis, OR; Young Sook Kim GR Washington, DC; Kathryn Kotula GR Minneapolis, MN; Rita Misra GR Philadelphia, PA; M. Dulce Paredes GR Las Vegas, NV

Frank W. Mason Agricultural Fund: Christine Shugrue '89 New Milford, CT

Beatrice McCauley Memorial Award: Stephen C. Fadden '90 Syracuse, NY; Natalie A. Snow '89 Salamanca, NY

Wessels S. & W. Stephen Middaugh—Alpha Zeta Fund: Krista E. Gellart '88 Akron, NY; Reno Low '87 Bronx, NY

Milk Marketing Inc. Fund: Julie A. Richter '90 Forestville, NY

Monsanto Fund: Patricia A. Demick '88 Johnson City, NY; Jeanne Hillman '88 Mt. Upton, NY; Robert D. Johnson '88 Schaghticoke, NY

Henry and Marcelle Morgenthau Fund: Douglas Adelman '87 Titusville, PA; Kenneth Bender, Jr. '88 Townville, PA; Salvatore Bruno '88 Brentwood, NY; Erik Carruth '88 Maple Shade, NJ; Dean Devore '87 Hauppauge, NY; Samuel Jacobs '88 Cherry Hill, NJ; Kevin Kerestus '88 Edystone, PA; Andrew Ruff '87 Bloomington, IN; Timothy Sullivan '87 Brentwood, NY; Russell Titus '87 Stoughton, MA

Frank B. Morrison Memorial Fund: Morton N. Adams '88 West Shokan, NY; Todd C. Baldwin '89 Waite Hill, OH; Susan Bregman '90 New City, NY; Ronald J. Cammarata '89 Sayville, NY; Pamela J. Childers '90 Brewster, NY; Sheryl B. Church '90 Freeville, NY; Ruth A. Darrigrand '90 Pleasantville, NY; William K. Freedman '90 Nesconset, NY; Joseph J. Gregg '91 Methuen, MA; Rebecca J. Gurshman '90 Plainfield, NJ; Kim A. Henry '90 Dover, DE; Linda S. Hunter '90 Albany, NY; Sharon L. Koski '89 Perry, NY; William L. Kraus '90 Voorheesville, NY; Jarrod A. Lazara '90 Staten Island, NY; Annette J. Leroux '89 Bayside, NY; Michele C. Lim '90 Escondido, CA; James O. Marx '89 Manchester, CT; Antigone M. McKenna '88 Oswego, NY; Robin B. Moyle '90 Scarsdale, NY; Laura L. Pearson '89 Harvard, MA; Leslie E. Phelps '89 Ithaca, NY; Maryann G. Radlinsky '89 Endwell, NY; Kenneth M. Rassnick '90 Merrick, NY; Julie A. Richter '90 Forestville, NY; Amy E. Ryan '89 New York, NY; Justin S. Salusto '89 Staten Island, NY; David S. Santisi '90 Westport, CT; Robin L. Schurr '89 Elmira, NY; Nancy K. Sikora '90 Rego Park, NY; Joseph P. Sito '90 New Hyde Park, NY; Jon D. Skinner '90 Birmingham, MI; Kristin H. Warner '88 Freeville, NY

Robert R. and Betty T. Morrow Fund: Elizabeth A. Domingue '89 Sayville, NY

H. B. Munger Memorial Fund: James Kahre '87 Niskayuna, NY

Nabisco Foundation Fund: Tia M. Gutmann '90 Brooktondale, NY; Gregory D. Hirsch GR Suffern, NY; Ilyse A. Zable '90 Vestal, NY

New York Farmers Fund: David Cottrell '87 Hoosick, NY; Jay Culver '88 Aurora, NY; Kathleen A. Donnell '89 Franklin, NY; Ruth Engle '87 Oswego, NY; Todd Finn '89 Holland Patent, NY; Lisa Furman '88 Delhi, NY; George Hinkley '88 New Berlin, NY; Amy L. Howansky '90 Watervliet, NY; Jody Koehler '89 Andover, NY; Adrienne McKivier '87 Greenwich, NY; Chet Osadchey '88 Ithaca, NY; Shelly Peet '87 Ithaca, NY; Helga Strobel '88 Central Moriches, NY; Christine Waag '87 Cherry Creek, NY; Warren Zipfel '87 Ithaca, NY

New York State Grange Fund: Douglas R. Harrison '89 Skaneateles, NY

New York Florists Club Fund: Michael D. Murgiano '87 Greenwich, CT; Carolyn L. Wilk '87 Oswego, NY

P&C Food Markets Fund: Jason Anderson '88 White Plains, NY; Robert Forness '87 Chaumont, NY; Jerry P. Kennedy '88 Burnaby, BC

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Municipalities Save \$2.5 Million through Roads Center

Imagine a time when roads are repaired before the surface begins to disintegrate. Gone are the cracks, the bumps, the ruts. The nefarious pothole is no more. It's a day when highway taxes are down and so is the cost of operating your car. Sound impossible? Not to Lynne Irwin, director of the Cornell Local Roads Program and associate professor of agricultural engineering.

Using a new method of recycling existing materials is another way to make the most of money already spent. "Techniques we developed for recycling existing road surfaces, with stabilization added to strengthen them, will permit reconstruction of four miles of road for the dollars now used to completely remove and rebuild one mile. And the durability

to cajole, coax, and coach to bring about technological change. That's why we have a training as well as research component to our work."

Although the Cornell Local Roads Program has been offering training workshops to those responsible for the maintenance, construction, and management of highways and bridges since 1951, grants from the Federal Highway Administration and the New York State Department of Transportation three years ago made it possible to greatly expand these activities. The grants established the Technology Transfer Center, one of 40 such centers around the country, which offers programs to mayors, supervisors, highway and other officials from towns, villages, cities, and counties throughout New York State.

In the tradition of Cornell Cooperative Extension, of which the program is a part, 25 to 45 workshops are offered around the state each year, covering a half-dozen or more topics. Kate Skelton is the project coordinator in charge. "An asset to this program is that we are very audience sensitive," said Skelton. "The constituents tell us the kinds of topics they want, what it is they need, and we really listen." Popular topics include old standbys like pavement maintenance and highway drainage, but interest in non-technical, management subjects is on the rise.

Computers for managing highway agencies are gaining popularity, as are workshops on communication. "In many cases the highway agency budget may be half or more of a municipality's total budget. Elected boards have a great stake in this. Communication is the key to being sure the highway agency, the board, and the public are satisfied."

The October-November workshop series is on tort liability and risk management. The focus is not only on the process of litigation but also on the positive steps responsible highway officials can take to avoid tort claims. Labor issues, communication between a boss and crew, and han-

dling public complaints are also covered by the program.

In the first two years of the Technology Transfer Center's operation, more than 1,500 highway officials attended workshops—and brought more than one and one-half million dollars in savings to their municipalities, according to the center's brochure.

In addition to training, the center offers an information service that provides publications, research reports, and basic "how-to" manuals without charge. These are advertised in *Nuggets & Nibbles*, a quarterly newsletter that Skelton edits.

Over the years highway officials have called on the program's staff to answer some pretty knotty questions. Sometimes laboratory technician Charles Ditmars, a 34-year veteran with the program, goes out and makes "road calls." In other cases, like Chautauque County's problem of pavement damage from horses hooves, networking is the most efficient way to address the problem. Providing answers to specific questions (use rubber horse-shoes) will continue to be a mainstay of the program.

"We're really meeting a need," said Skelton. "More and more people are looking to the program for information. Increasingly, local officials are dealing not only with budgetary constraints but with a diminishing supply of materials used in constructing good roads. Communities are taxed to the limit, yet needs are increasing, and road use is changing. The pressure is really on."

The Cornell Local Roads Program is here to help. ■



A deflectionometer operated by Charles Ditmars detects road surface conditions and sends data to instrument being checked by Cheryl Richter.

"If the kind of technologies our research program is developing were widely adopted, I can envision a time in the future when the highway system in this country would cost perhaps 25 percent less than it does now," said Irwin. "And everybody would be driving around on smooth, flat roads."

The trick, Irwin believes, is to identify the best time to do road repairs. Contrary to popular belief, the program's researchers have found the biggest return on investment comes when roads are repaired before serious cracking and other kinds of

of a recycled road can be even better than a road reconstructed with new materials.

"Most economists shake their heads. They say it can't possibly be that you get a lower first cost and a lower life cycle cost. Usually you invest more to reduce your future costs, or if you don't invest now you'll pay for it later. Here's a case where you pay less now and pay less later."

"But this is a very conservative field. New ideas aren't embraced willingly and old technologies aren't thrown out too quickly. In highway technology you have

Innovative Teaching Workshop

The college held its first annual Innovative Teaching Workshop at the Thornfield Conference Center in Cazenovia, New York, in early June. More than forty faculty from ten departments and Mann Library came together for a week of presentations on innovative approaches to instruction. By all accounts, the event was a resounding success.

"One of the things I'm happiest about," said Elizabeth Oltenacu, designer of the workshop and associate director of the college's Office of Instruction, "is how positive the participants felt about it. We've gotten a lot of feedback from the departments that participants are very enthusiastic about what they learned, that they came away eager to try out some new things in their own classrooms."

The impetus for offering the workshop came from both the college's commitment to improving instruction and a recognition that there are often few opportunities for faculty to talk together about their teaching.

"Sometimes you get the feeling that there is a little too much emphasis on research, not only in the minds of faculty but of students as well. We saw this as a way to support a group of very good teachers, to work with them in taking some new approaches to creating an even better instructional program. Excellence in undergraduate education is a priority



Kathy Chiang, a Mann librarian who specializes in data files, explains a new technology for storing information—the compact disk—to faculty member Edward McLaughlin, assistant professor of agricultural economics.

for us; participants found this very encouraging."

The workshop was structured to include both the theoretical and applied aspects of instruction. Faculty from the Department of Education and the Department of Communication presented a range of new educational theories, technologies, and teaching strategies as well as nuts-and-bolts topics such as how to make effective visual materials.

The library's role in innovative instruction was presented by staff from Mann

Library. "Many faculty aren't aware that Mann Library is a national leader in information management technology, so it was particularly helpful to see just what's going on there. The staff also offered to hold workshops in the classroom to familiarize both faculty and students with the resources now available through compact disk and other modern information storage techniques. This is a service to teaching faculty many participants hadn't known about before."

A highlight of the more informal evening presentations were discussions with several of the college's Professors of Merit.

Faculty participants included both seasoned instructors and those newly entering, or re-entering active undergraduate teaching. "We felt a big part of this was not just the actual presentations but the interactions among a group of people from so many different departments. It was just wonderful to watch!"

A series of follow-up meetings in the fall and winter will bring the group together again to share their experiences in putting what they learned in the workshop into practice in the classroom. Some will also be asked to do the same with next year's workshop participants. The second annual Agriculture and Life Sciences Innovative Teaching Workshop is scheduled for June 6-10, 1988. ■

Metta Winter

Help! we find our lost alumni of the college

Periodically, we'll list those alumni whose addresses have been lost during moving. If you have a recent address change, please forward it to us: ALS Alumni Affairs, 242 Roberts Hall, Cornell University, Ithaca, NY 14853.

This issue we feature the classes of 1958 and 1963.

Class of 1958

Acquario, William J.
Ben Yehoshua, Shimon
Berlin, Harry G.
Bockman, Barry S.
Burns, Robert F.
Caciagli, Anthony J.
Ceglia, Paul D.
Chater, William A.
Chestnut, Gary S.
Coley, Curtis E.
Cornwell, Ronald F.
Dalton, Gerard T.
Delvalle, Natalie
Gundrey
Doyle, James P.
Drake, Barbara Quinn
Drake, Robert M.
Engert, Robert C.
Fish, Donald C.
Flowers, Jimmy
Gifford, Edward G.
Goldman, Herbert I.
Gridley, Leon O. Jr.
Hartmann, Harry L.
Hayes, Richard J.
Hewitt, Richard D.
Hoover, Jan R.
House, Roger W.
Johnson, Dudley A.
Joy, Russell
Kaye, Martin
Kron-Kiely, Eldora
Lee, Stanley A.
Lewis, Calvin A.
Lipitz, Bert A.
Lofke, Walter A.
Lundholm, Evelyn
Huntley
Lynch, John V.
McConnell, Robert M.
Meacham, James R.
Merritt, Robert G.
Miller, Robert V.
Murphy, Richard H.
Murray, Kenneth L.
Northrup, John J.
Olstein, J. Martin
Olberg, Robert O.
Paolillo, Dominick J. Jr.
Paolillo, Marie Knowlton
Paul, William A.
Quinn-Guardia
Rodolfo E.
Raynis, Harrison R.
Reed, Michael T.
Smith, Malcolm H.
Sotire, Michael N.
Staring, Ronald M.
Stein, Howard L.
Stredford, Thomas G.
Thompson, Samuel C.
Tyler, Denis K.
Walter, Fredrick L.
Walter, Susan Goddard
Washington, Jean Pratt

Class of 1963

Webster, Thomas A.
Wee, Teow S.
Yeagans, Carl
Amidon, Lee H.
Avery, Robert D.
Balogun, Peter G. T.
Beggs, James J.
Benedict, William P.
Biehl, Kingsley A.
Brogan, Richard J.
Caldwell, William M.
Child, Edwin D.
Clayton, Alton F.
Collins, David J.
Cornell, William C.
Daniel, Philip E.
De Oliveira, Jose M.
Dodd, Robert H.
Downs, L. Terry
Eddins, Ann Brooker
Furke, Robert C. Jr.
Grossman, Barbara L.
Heller, Robert L.
Hughes, Geoffrey A.
Johanson, Catherine Link
Lampkins, James W.
Levy, Jack C.
Maas, Marie J.
Mangin, John A.
Martin, Elinor Kleinman
Mathieson, Alan B.
McKenna, Eugene D.
McMullen, Thomas G.
Meyer, William F.
Miller, Kenneth C.
Nisenholz, Fredric D.
Passmore, William O.
Price, Michael G.
Ragoun, Arlene
Schwarzreich
Rhodes, Robert S.
Rogers, Joseph R.
Roth, Samuel
Rothblatt, Laurence
Sachs, Arthur B.
Sample, James A.
Saunders, Hermon
Scranton, Paul D.
Shepard, James F.
Sickler, James E.
Skinner, S. Michel
Smith, Zach R.
Smith, G. Sheldon
Stanley, Daniel L.
Sutherland, Charles A.
Tulbert, Frank A.
Turing, Frank E.
Unger, David
Washington, Patricia
Cheney
Wilder, Mary Dorothy
Yost, Carlson W.
Ziegler, Jerome Lawrence

Alumni Notes

20 Phillip I. Higley '26 and **Helen Bettis Higley** '25, Fort Walton Beach, Fla., take 5 or 6 weeks each summer from volunteering at the local hospital and playing golf to vacation with members of their family at Wallow Lake, Mich.

Mrs. Burton A. Leffengwell '26, Canaan, Conn., celebrated her 89th birthday in August. She attended her 60th class reunion last summer and enjoys keeping up with Cornell news and information.

Correction

Edmund N. Moot '22 says Edmund! None of that Edward stuff. He also wants readers to know of the book he is writing, *Revitalized Rurality*.

30 John V. B. Rice '32, Modesto, Calif., attended his 55th class reunion in June. He says he is fascinated by California agriculture and enjoys living near his two children, Karen and Carl, who both graduated from Cornell.

Correction

Fred C. W. Kramer, III '35 is president of the Kramer Company (misspelled in the last issue) and has been very active on planning, zoning, Lions, Masons, church... the list is long.

40 Arthur Bing Ph.D. '49, professor emeritus of floriculture and ornamental horticulture, works at Cornell's Horticulture Research Lab in Riverhead, near his home in Huntington Station. Bing is president of the Long Island Flower Growers and the New York Florists Club and interviews prospective Cornellians.

Katia Jacobs '45, formerly **Catherine Altschuler**, Highland, N.Y., is both staff and student at SUNY New Paltz: she is a Russian tutor at the college as well as an auditing student of Italian, French, and German.

James H. Rice '40, a retired member of the Rutgers University cooperative extension 4-H staff, runs a farm in Titusville, N.J., where he grows Christmas trees and hay and boards horses.

50 Bruce G. Grover '50, Staunton, Va., was presented with his second Golden Oval award in April by the American Cyanamid Company for the highest sales in his division. Grover also is director of the Virginia Poultry Federation and deputy assistant general in the Virginia Army National Guard.

Norman Potter '50, Cornell professor of food science, and his wife Adele are enjoying their sabbatic leave in England.

Arthur P. Ives '51, Oxford, N.Y., retired in July 1985 from Norwich BOCES where he taught agricultural mechanics. He is currently president and chief executive officer of Ives Hauling, Inc., a milk company serving farmers in Chenango, Delaware, Otsego, Broome, and Madison counties.

Edward O. Moe Ph.D. '51 received an honorary degree from Utah State University in June. A former Cornell faculty member, he is retired from Utah State's Department of Agriculture, where he was principal sociologist and coordinator for rural development.

Marvin T. Silverman '51, White Plains, N.Y., is chief executive officer of PTX Food Corp. and spends four months a year in France.

Stanley A. Berry '52, Wooster, Ohio, is professor of horticulture at Ohio State University.

Floyd Morter '52, Canton, N.Y., is enjoying his retirement from cooperative extension 4-H agent work and vacations annually in Cape Cod.

Randolph Barker '53, Cornell professor of agricultural economics, has been named to the board of directors of the International Institute of Tropical Agriculture.

Audrey Bishop Bingham '53, Waterloo, N.Y., widow of Martin Bingham, who worked in photo science at Cornell from 1957 to 1976, is a toll collector on the NYS Thruway.

Robert M. Dilatash '53, Cranbury, N.J., is a special agent for Prudential Insurance Company.

Marian Goodrich '53 lives in New Paltz, N.Y. with her husband James and her four children, all of whom are active in Ulster County 4-H. She is a school social worker for Kingston City Schools.

Richard L. Haner '53, M.Ed. '64, Clifton Park, N.Y., is a supervisor of the NYS Department of Education.

Charles Ivor Kepner, Jr. '53 is an area distributor in his hometown of Clarence, N.Y.

Duane A. Neil '54 lives in Atlanta, Ga., and works as a meeting planner.

Marilyn Stearns Richards '54, Levittown, Pa., organized and is in charge of the customer service desk at Snipes Farm and Nursery in Morrisville, Pa.

Paul E. Steiger '54, Ithaca, N.Y., is director of personnel for Agway, Inc., and a director of the Empire Livestock Marketing Cooperative.

Richard Bitterman '55, Las Vegas, Nev., is employed by Nevada Cooperative Extension. He is former extension 4-H agent in Erie County New York.

Minnie Miller Brown M.S. '55 has received the Distinguished Service to Rural Life Award from the Rural Sociological Society. She was cited for her dedication to improving rural people through nutrition education, her desegregating efforts of land-grant institutions in the South, and a long career of service.

John Elderkin '55, Walton, N.Y., has been the principal at BOCES Center in Delaware County for sixteen years.

Chancellor Hannon Ph.D. '55, Haines City, Fla., is a plant pathologist, nematologist, and citrus consultant in private practice specializing in management of citrus properties and investigating problems for growers, attorneys, and insurance companies.

Robert E. Armstrong '57, New York City, is an agricultural development officer for the U.S. Agency for Intl. Development while his wife **Sandra** '55 works in the Foreign Agricultural Service for USDA.

Joseph G. Hartwig '57, Sanford, Fla., is a labor and personnel consultant and serves on the central Florida ALS District Leadership Team.

W. David Hopper Ph.D. '57, Washington, D.C., has been promoted to senior vice president of World Bank.

Samuel M. Leadley '57, M.S. '64, Ph.D. '67 is president of the Genesee-Orleans Cornell Club and lives in Pavilion, N.Y.

Edwin C. Hadlock '58, Hammond, N.Y., owns and operates a 200-cow family dairy farm and is active in local community, church and school.

Joseph Donahoe '59, Penn Yan, N.Y., serves as a Yates County Agricultural Agent and County Extension Coordinator. He is also a member of the ALS Alumni District 14 Leadership Team.

60 David Auble '60 is developing a township project on South Hill in Ithaca and expects son Gabe to enroll in ALS.

Ruth Berberian Hanessian '60 operates a pet store in Rockville, Md., which specializes in captivity-bred exotic birds.

Jerome V. Hazlitt '60 lives in Hector, N.Y., with his wife Elaine and owns Hazlitt 1852 Vineyards Winery.

Alan '61 and **Penny Belet**, Winnetka, Ill., have experienced a tremendous career shift since Alan opened a general contracting and real estate firm. Before that, the couple lived in the Far East, working in public and private agriculture.

Richard Popp '61, Castile, N.Y., is gaining recognition for the innovative breeding techniques he employs at his Southview Farm. He is past president of the National Dairy Herd Improvement Association.

Robert W. Herdt '61, M.S. '63, adjunct professor of agricultural economics at ALS, was recently named director of the Rockefeller Foundation's Agricultural Sciences Division.

Franklin M. Loew '61, D.V.M. '65, dean of the School of Veterinary Medicine at Tufts University, was featured in a March *New York Times* article on the field of veterinary medicine.

Wayne F. Kelder '62 and his wife Elizabeth are dairy farmers in Accord, N.Y. Son Christopher graduated from the college this year and daughter Debra is a junior.

Gordon L. Peck '62 is a consultant in management and medical marketing. He lives in Abingdon, Va. with his wife Jane and two children.

Jennifer Patai Schneider '63 lives with husband Burton in Tucson, Ariz., where she is a physician specializing in internal medicine. Burton owns a T. J. Cinnamons Bakery in Tucson.

Samuel S. Yagur '63 is a partner at Hall, Dickler, et al., a N.Y.C. and White Plains law firm specializing in trial work and negotiations.

Bob Murdock '64, Hartwick, N.Y., is the general manager of Otsego Electric Co-op, Inc., and the executive secretary of the NYS Rural Electric Co-op Association.

Kenneth Banse '65, Westtown, N.Y., is an eastern region sales manager for Jones Dairy Farm.

Theodore V. Jacobsen '65, Nescopeck, Pa., is the president of Ecology III, Inc., specializing in environmental services, and the mayor of Nescopeck.

Richard L. Kaprae '65 (M.A. '68, Ph.D. '80) is a professor of natural resources at Morrisville College and department chair.

Joseph L. Gilio '66, Jensen Beach, Fla., is the president of Wetlands Management, Inc., a restoration and ecology firm.

Constance R. Weaver '66 lives in Silver Springs, N.Y., and is employed as a science teacher.

Mary Webb Jensen '66, Albuquerque, N.M., is active in her sorority and AAUW, and works at the New Mexico Museum of Natural History. Mary and her husband **Neal**, Liberty Hyde Bailey Professor of Plant Breeding Emeritus at Cornell, have been retired since 1978 and moved from Arizona to Albuquerque in 1984. Neal is currently completing a book on plant breeding.

Judith B. Harvey D.V.M. '66 is a veterinarian in North Pole, Alaska.

Richard E. Woodworth '66 was recently named personnel officer in Cortland County (N.Y.), he previously was personnel administrator in Syracuse.

Everett D. Thomas '67 lives in Schuylkill, N.Y., where he is an agronomist at Miner Institute. He is also involved in agriculture consulting in Europe.

Robert L. Thompson '67 has been named dean of the College of Agriculture at Purdue University. Since 1985 he was assistant secretary of agriculture in Washington.

David Chamberlain '68 is a dairy farmer in Wyoming, N.Y.

Joseph E. Rakowiecki '68, Salisbury Mills, N.Y., is employed at Stonefield Farm, "Home of Stonefield and Jayrock Holsteins."

Merle Tausant '68, Manlius, N.Y., was recently named partner-in-charge of services to the health care practice of the Syracuse office of Ernst & Whinney, accounting and consulting firm.

Paris W. Reidhead, Jr. '68, Cooperstown, N.Y., is area sales manager for Vigortone Agricultural Products.

Leonard Seth Bull '69, Cambridge, Vt., is a professor of animal science at the University of Vermont. He recently chaired the subcommittee of the Natural Resources Council Committee on Animal Nutrition that developed a system for protein nutrition of ruminants.

Emil Q. Javier Ph.D. '69, former Philippine Minister of Science and Technology, chancellor of the University of the Philippines at Los Banos, and founding director of the Institute of Plant Breeding and of the National Institute of Biotechnology and Microbiology, was appointed a senior research fellow at ISNAR last September.

70 Mohamad Shoaib Jatoi '74 farms in Pakistan.

Lorraine Marnell '73, Albuquerque, N. Mex., earned her doctorate at the University of North Carolina and is now an associate scientist at Lovelace Medical Foundation.

J. David Flynn '75, London, Ontario, Canada, is a professor at King's College and enjoys hiking and mountain climbing.

Andrew Grainger '75, Littleton, Colo., works as an environmental scientist-consultant. He and his wife, Sheryl, keep themselves busy caring for their daughter and son.

Mike Mountain '75 and his wife, Jackie, live in Calgary, Alberta, with their four young children. Mike owns a consulting business and enjoys squash, golf, wind surfing, skiing, and biking.

Patricia A. Richmond '75 and her husband, Rodney K. Greene, live in Decatur, Ill., where she is a manager of Food and Industrial Starch Research and Development, A. E. Staley Manufacturing Company.

Susan Roth '72, Stony Brook, N.Y., is a freelance writer and editor specializing in garden and health topics. She also is a project editor in book publishing.

Robert A. Smith '76, Delmar, N.Y., was recently named deputy commissioner of the N.Y. State Department of Agriculture and Markets. He is a member of the N.Y. Farm Bureau, the N.Y. State Agricultural Society, and a recent graduate of the Empire State Food and Agricultural Leadership Institute.

Michael R. Van Valkenburgh '73 was selected as the new director of the Master in Landscape Architecture Program of the Harvard Graduate School of Design.

Robert J. Weiss '74, his wife, Cathy, and son live in Ellicott City, Md. He is director of corporate finance for the Federal National Mortgage Association in Washington.

80 Alemneh Dejene Ph.D. '80 is spending six months in the Wollo region of Ethiopia, an area severely affected by recurrent famine, to investigate connections between famine and socioeconomic conditions. A research fellow in environmental studies at Harvard's John F. Kennedy School of Government, he recently published *Peasants, Agrarian Socialism, and Rural Development in Ethiopia* (Westview Press).

Johanna Costa Asher '85 is a sales rep for a Manhattan-based consulting firm specializing in data processing. She lives in Pelham with her husband, Joey Asher, Arts '84.

Cheryl Carlson '83 started a dairy farm almost immediately upon graduation from Cornell. Her business, which has grown from four head to 50 cows and 42 heifers, was featured in a June issue of the *Ithaca Journal*.

Lynne L. Crook '85, a native of upstate New York, is adjusting to life in Columbia, S.C. She recently purchased skis and is now waiting for Columbia to receive a measurable snow fall.

Robert Dino Davis '85 is currently serving as an officer in the U.S. Army.

Irving Drantch, Beverly Hills, Calif., is a proven alumnus of the Class of 1981, although he left Cornell in 1941 six credits and one apprenticeship short of his degree. The college accepted his 20 years of Army Reserve work as course credit because it included agriculture courses through the Quartermaster Crops. Drantch is the president of Pacific View Produce Co.

Daniel Fessenden '87, King Ferry, N.Y., was named assistant director of government relations for the New York Farm Bureau this summer.

Katherine H. Graham MS '86, Ithaca, a member of the board of the Alternative Federal Credit Union, was recently named financial planner at IDS Financial Services.

Edward '87 and **Janet Heslop** '90, Spencer, N.Y., were elected co-chairs of the N.Y. State Farm Bureau's young farmer committee. In addition to managing their 35-head dairy farm, the Heslopes are Cornell students. Janet is working on a bachelor's degree and Ed, a master's.

Mary E. Johnson '85 and her husband, David Johnson, live in Freeville, N.Y. She is an international auditor at Citizens Savings Bank, Ithaca.

Heidi Lowe '85 works for American Trust Bank in Cleveland as an analyst in investment product development.

Elizabeth Meller '83, Bronx, N.Y., is a pediatric resident at Montefiore-Einstein Hospital and recently graduated from SUNY Stony Brook School of Medicine.

Steve '84 and **Collene Parker** '84 won the second place award of \$2,000 in a design competition to find a creator for a new site plan for the Flamingo Gardens, Florida. Steve is with Urban Design Studio and Collene with Kilday and Associates, West Palm Beach.

Kathleen M. Rowe '85, Brookline, Mass., is the public information officer for New Medico Head Injury System.

Teresa Schilling '84, Elmira, N.Y., is a student financial analyst at the University of N.C. at Chapel Hill, where she also is in the business school.

Sue Merrill Taylor '83, Fabius, N.Y., is an agricultural loan officer.

Larry J. Van Splunder '85, Warsaw, N.Y., is the Wyoming County district supervisor for the N.Y. State Dairy Herd Improvement Cooperative.

Cathy Keene '88, **Steve Wirblow** '88

Daniel Aneshansley Applies Engineering to Biological Problems

Metta Winter

"Every once in a while somebody says to me, 'I saw you on 'Ripley's Believe It or Not.'"

That's a professional credit one wouldn't expect for an associate professor of agricultural engineering, but Daniel Aneshansley is used to it. His work has been seen on "Ripley's" and other television programs: "3-2-1-Contact," "Discover," "National Geographic Special," "The Naturalist" (Canadian), and "Secret Weapons." It is unlikely that any of the programs would have contacted him if he had not switched specialties at Cornell.

"I came to Cornell as a graduate student in electrical engineering with a general interest in combining biology and electrical engineering, which was my undergraduate background from the University of Cincinnati. But he became hooked on applying engineering principles to the study of natural history phenomena after he collaborated with Thomas Eisner, professor of neurobiology and behavior, on a number of projects relating insects and engineering. His favorite was the bombardier beetle, an insect that, when picked up, emits a spray that causes a burning sensation.

"We became interested in the beetle as an engineering problem: how did it produce a spray that works as a defense mechanism," says Aneshansley. With Eisner's expertise in the chemical defenses animals use against predators, and Aneshansley's in instrumentation—developing equipment that measures physical properties—they tackled the problem together.

Aneshansley developed instrumentation to determine the thermal properties of the spray discharged by the beetle. It measured 100 degrees Celsius. They discovered that two chemicals are stored separately in the beetle. When the animal is disturbed, a valve opens and they mix together, causing a microchemical explosion.

"The reaction is instantaneous and pulsed at about 1,000 times a second. It's

like having boiling water sprayed onto your hand."

Eisner's and Aneshansley's successful collaboration continued for the next ten years, while Aneshansley held a joint appointment between the School of Electrical Engineering, where he earned his Ph.D. degree, and the Section of Neurobiology and Behavior.

Three years ago Norman Scott became the college's director for research and his position in the Department of Agricultural Engineering became available. "It was a very nice opportunity for me," said Aneshansley. "Agricultural engineering has always been a combination of agriculture, biology and engineering. In fact, the current trend is to give equal emphasis to the biological and agricultural aspects of agricultural engineering, which suits my interests perfectly. With agriculture in the midst of a variety of technological revolutions, my expertise in electronics, computers, sensors and instrumentation allows me to pursue a number of interesting research opportunities in agricultural engineering.

While continuing to collaborate with Eisner (studying ultraviolet patterns in plants and animals and projects involving insects with chemical defenses), Aneshansley's move has allowed for applied work in pest control, dairy equipment, stray voltage, and meat inspection.

He is currently studying ways to remove Colorado potato beetles from potato plants. "In the past, we discovered beetles that had tarsal pads, made up of thousands of little bristles, onto which they secrete a liquid. The liquid facilitates the attachment of bristles or hairs to the plant, much like water will bind glasses together during washing. The potato beetle combines claws and tarsal pads to maintain its hold." The task is to remove the beetles from the plants. Pulling, blowing, and vacuuming are all possibilities, but taking advantage of the insects'

natural behavior could make it simpler.

"We know insects will pull in their legs and attempt to drop out of sight, when under 'attack.' If we could find something to make them do that, it would be easier to catch them as they fall than take them off the plant. Graduate student Roelof DeVries and agricultural engineering professor Wesley Gunkel have designed two machines to blow insects from the plants, one with multiple collectors for large scale applications and a second, hand-held unit for smaller scale applications, such as use by organic farmers.

Projects in the dairy areas include studies of neutral-to-earth (stray) voltage and its effect on dairy cows, with professors Ron Gorewit and David Ludington, the transmission of infections through milking equipment, with professors David Galton and Norman Scott, and estrus detection and other sensor problems associated with dairy operations, with professor R. David Smith and professor emeritus Nelson Bryant. Other projects include the application of image processing techniques to grading and inspecting meat products, with professor James Stouffer, and instrumentation for monitoring and controlling environmental conditions, with professor Michael Timmons.

"One of the special things about this department and the agricultural college, in general, is the diversity and spirit of cooperation. If I need help with a physiological or biochemical problem in my research, there are colleagues ready and willing to assist. And if someone needs some instrumentation help I am available to provide some assistance. The only problem is limiting the number of projects in which you become involved."

Aneshansley's fascination with the complexities of biology and engineering guarantee that he will stay involved for some time. Just check your local listings.

Alumni Help Students with Careers

There was a time 10 or 20 years ago when offices such as the Agriculture and Life Sciences Career Development Office were called placement offices. Their major or sole purpose was to "place" seniors in jobs.

These days, most of our services are still devoted to helping seniors, graduate students, and alumni to make connections with employers, but we do much more. We work with students from freshman year on with internship programs, summer job files, an extensive career library, career guidance by computer, special seminars, and individual counseling. The new, broader approach recognizes that students need to understand themselves and their options to make intelligent career decisions. We emphasize career planning and job search skills that will be of life-long value. As a result, the student now plays a much more active and continuing role in planning his or her future.

Would you like to become involved? Here are two ways alumni can:

The Cornell Alumni Career Advisory Network

Purpose: To help all Cornell undergraduates gain first-hand information about careers by talking to alumni. Students seek information about your profession, including requirements and necessary skills, satisfactions, drawbacks, how to enter the field, and other important information.

Alumni complete a profile card and return it to the University Career Center. Profiles are entered into Cornell's computer system for easy access by students. Students are required to meet with a career counselor to obtain the names and addresses of alumni and to insure that they understand completely the purpose of the program—it is an exchange of information and not a job placement service.

To take part, contact Tom Devlin, Director, University Career Center, 14 East Avenue; phone 607-255-5221.

The College of Agriculture and Life Sciences Alumni Listing

Purpose: To help all undergraduate and graduate students in the college to make connections with alumni in order to receive advice or assistance about careers, employer information, summer employment, or full-time employment.

The ALS Alumni Affairs Office provides the ALS Career Development Office with a computer printout of alumni names and addresses. Students contact alumni by telephone or mail to describe their need for assistance and ask if the alum is willing and able to help.

To take part: We will include all alumni in the printout unless individuals instruct us otherwise.

Career-related programs involving alumni have become popular in recent years and for good reason. They offer you a chance to stay in touch with your college through a positive, face-to-face interaction with one or more students each year. A few hours, or even a few minutes, of your time could be of tremendous value to a student considering a career option or looking for the right position.

Bill Alberta, Coordinator
Career Development Office



Charles Lathrop Pack Fund: Letitia W. Clark '89 Pottsville, NJ; Joleen M. Croft '91 Massillon, OH

Charles Lathrop Pack Foundation Natural Resources Mgt. Fund: Linnea M. Fredrickson GR North Lincoln, NE; Michael H. Gilbert '87 Pound Ridge, NY

Roberta Petrucci Memorial Fund: Stacey B. Pastorino '90 Bearsboro, NY; Lori M. Silverbush '90 White Plains, NY; Lorette I. Simon '90 Riverdale, NY; Alyson Sinclair '90 Lawrence, NY

Philip Morris Inc. Fund: Jerry P. Kennedy '88 Burnaby, B.C.

Kenneth Post Foundation Fund: Stephen Bouw '87 St. Catharines, Ontario; James H. Clarke '89 Syracuse, NY

Poultry Science Dept. Memorial Fund: Mary E. Delany GR Convent Station, NJ; Muquarrab A. Qureshi GR Ithaca

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Procter & Gamble—Food Science Fund: Barbara Alcorn '90 Guayaquil, Ecuador

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Ralston Purina Fund: John P. Sepenowski '87 Southold, NY

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Shaulis Award in Viticulture: Kevin P. Barr '88 Ithaca, NY; Glen L. Cressy '90 Ithaca, NY

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Join or Renew in December and Save

Save \$5 on your ALS Alumni Association membership by signing up before the end of the year. Current membership costs you \$15 for two years. After January a 2-year membership will cost \$20.

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Calendar

November 20-21

ALS Alumni Board Meeting, Ithaca
 November 23
 District 13 Alumni Leadership Team,
 Al Beard, director

December 9

District 1 Alumni Leadership Team,
 Maurice Semel, director

December 10

District 4 Alumni Leadership Team,
 Carl Specht, director

January 22-23

ALS Development Committee
 Meeting (tentative)

March 6

Cornell Club of Monmouth, N.J.
 Sunday Brunch,
 Dean David L. Call, Speaker

March 25-26

ALS Alumni Committee and Alumni
 Board of Directors Meeting, Ithaca

April 6

District 5 (Columbia, Dutchess,
 Greene)
 Reunion Breakfast, Annual Meeting
 of the College
 Alumni Association, Ithaca
 Peter Hubbell, director

May 5

District 10 (Clinton, Essex, Franklin,
 Hamilton)
 Dean-Alumni Get-Together, place to
 be announced
 Catherine Butts, director

May 10

District 16 (Monroe, Ontario,
 Wayne)
 Dean-Alumni Get-Together banquet,
 place to be announced, Doug Conti,
 director

June 11

Reunion Breakfast, Annual Meeting
 of the College
 Alumni Association, Ithaca

Thailand seminar. "Improvement of
 Vegetable Production for Asia" was the
 title of a seminar in Chiang Mai, Thailand,
 recently. Participants include Dennis J.
 Murphy '53, U.S. Peace Corps volunteer
 in Thailand; Rimer Ewing Ph.D. '59, Cor-
 nell faculty; Pradeep Wiroongvanna
 Ph.D. '79 and Maceo Wiroongvanna
 Ph.D. '79, both faculty, and Brent Bowell
 Ph.D. '84, vegetable researcher under
 the auspices of Church World Services.



agriculture & life sciences

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 November 1987

agriculture & life sciences

news

New York State College of Agriculture and
 Life Sciences at Cornell University

November 1987

Raising Fish
in Barns

Nutrition-conscious Americans are gravitating in ever greater numbers toward seafood. Since 1980 the per capita increase in seafood consumption has jumped more than 12 percent with no end in sight. Yet the United States imports almost 60 percent of its fish products, and New York State harvests very little of its own.

Enter the Cornell Aquaculture Program. Staffed by a team of scientists from six specialty areas, the program has a fourfold task: to develop the technologies, management systems, and marketing strategies for a new industry. The fourth part is that it must be based on water reuse.

Aquaculture—growing crops in a water medium—has been around for a long time, according to William Youngs, professor of natural resources, who co-directs the program with Michael Timmons, associate professor of agricultural engineering. "It's been used for food production in China for well over two thousand years."

"In the United States aquaculture developed out of an interest in propagating game fish," said Timmons. "Trout hatcheries have been in existence for more than 150 years. But hatcheries, like other intensive aquaculture systems, usually depend on a natural water source, and thus can be prey to extreme variations in water quality."

To address this problem, members of the Cornell Aquaculture Program designed a self-contained system where the same water is used over and over again. The system is located at the Teaching and Research Center in Harford, N.Y.

continued on page 5



Glenn Snapp '86 nets Atlantic salmon, one of two fish varieties raised for the Cornell study.

Inside: 1986-87 Alumni
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