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Scientific Exchanges
Hubert H. Humphrey Fellowship Program, bringing professionals from around the world to Cornell for a year of study and professional development • Cornell Transnational Learning, sharing knowledge with African and Asian institutions via digital video and Web streaming technologies • Central and Eastern Europe Initiative on Sustainable Development of Rural Communities

Community Development
Bridging the Rift, a collaborative research, education, and economic development program in Jordan, Israel, and other Middle East countries • Agricultural Biotechnology Support Project II, an international consortium focused on capacity building through the introduction of specific products in Africa and Asia • Cornell International Institute for Food, Agriculture and Development watershed management projects in Ethiopia, West Africa, and the Philippines • Knowledge sharing networks on soil health and the system of rice intensification, linking scientists, extension agents, and farmers around the world

International Programs
College of Agriculture and Life Sciences
ip.cals.cornell.edu

607 255-3035
Ezra Cornell founded Cornell University in 1865—"an institution where any person can find instruction in any study"—and it was designated as New York's land-grant college. Agricultural education was a requirement of the Morrill Land Grant Act, which was signed by President Abraham Lincoln in 1862, and central to Ezra Cornell's vision. He believed in bringing science to the aid of agriculture. When the first 442 students enrolled in 1868, botany, agricultural chemistry, and veterinary medicine were among the topics they studied.

On May 9, 1904, the New York State legislature appropriated $250,000 to officially establish the New York State College of Agriculture at Cornell. Liberty Hyde Bailey, a visionary botanist and innovative educator who was the Dean of the College at the time, lobbied hard for this designation. Upon his triumphant return from Albany on May 12, 1904, the students organized a parade in his honor—the very parade the College re-enacted on May 12 this year.

Today the College of Agriculture and Life Sciences is the second largest college at Cornell, with 385 faculty, more than 3,100 undergraduate students, 1,100 graduate students, and upwards of 45,000 living alumni.

We are proud of our 100 years of service to Cornell's land-grant mission. Although food and agriculture remain major global concerns, the priorities of today's College have broadened as society's concerns have expanded and new technologies have emerged. Today, our priorities in the College of Agriculture and Life Sciences include social sciences such as communication, education, applied economics and management, and information technologies; new life sciences like genomics, molecular biology, and informatics; environmental sciences like natural resources, ecology, and biological and environmental engineering—as well as food and agriculture.

Diverse strengths across the biological sciences, our commitment to biodiversity, and our record of translating groundbreaking discoveries into commercial practices and educational outreach make the College a leader in Cornell's New Life Sciences Initiative. It is leadership we come to naturally, as much of the world's pioneering work in plant and animal sciences has been conducted by Cornell faculty and students in fields, greenhouses, and laboratories, here and abroad.

As we celebrate our century of leadership, we are reminded how our faculty, researchers, and extension educators have improved lives and responded to the changing needs of human society. In 2004 and beyond, the College seeks to embrace the strategic directions set forth by the University. Our goal as active collaborator and partner is to help create a better future for us all.

Please take a few minutes to celebrate our achievements with us and honor the students, faculty, staff, and alumni who are our past and our future. Our celebration goes far beyond what these few pages can illuminate. I challenge you to join me in the inspiration of our next 100 years.

Susan A. Henry, Ph.D.
The Ronald P. Lynch Dean of
Agriculture and Life Sciences
Cornell University
Centennial Parade Kicks off Year-Long Celebration

BY LINDA MCCANDLESS '74

On May 12, 1904, students and faculty rounded up six black bulls, a cadet band, an entomology float, and more than 2,000 people to march in a parade celebrating Cornell University's designation as the official New York College of Agriculture.

One hundred years later, the re-enactment of that same parade featured an entomology float, "Liberty Hyde Bailey" (née plant biology chairman Bill Crepet) and his original plow, horse-drawn carriages, antique cars and tractors, floats from fourteen departments, members of the Cornell polo teams on their horses, the Big Red Marching Band, and thousands of marchers and spectators.

Participants convened on Ho Plaza in front of Willard Straight Hall, passed between Sage and Olin libraries, marched by Day Hall and up Tower Road past the Ag Quad, and finally came to a halt in front of Fernow Hall. Susan A. Henry, the Ronald P. Lynch Dean of Agriculture and Life Sciences, led the celebrants before occupying a reviewing stand with former CALS deans and other VIPs to award parade prizes and make celebratory remarks. An ice cream social followed, featuring the unveiling of a new flavor developed by the Cornell Dairy in honor of the Centennial: "Bailey's Cream with Henry's Crunch." A rip-roaring thunderstorm capped off the old century, and the band played on.

"The Centennial parade was a great opportunity for the Cornell community to celebrate an important historical event in the life of the University and showcase the diversity of the College of Agriculture and Life Sciences," said Marvin Pritts, a member of the organizing committee and chairman of the Department of Horticultural Sciences.

Politically Charged, in 1904

Designation of Cornell's agriculture department as the official State College of Agriculture in 1904 was the culmination of several years of lobbying on behalf of...
Department chair Mike Walter brought a buzz to the Biological and Environmental Engineering float, the winner of the Dean's Award for the Best Overall Parade Float.

The Big Red Bear greeted the festive float from the New York State Agricultural Experiment Station in Geneva; along for the ride were (L–R): Ed Broderick, Kathy Morobito, Nestor Ortiz, Francisco Badenes-Perez, Cy Lee, and Jan Nyrop.

Dean Susan Henry, Peter Henry, Vice Provost Francille Firebaugh, and Provost Biddy Martin enjoyed the ride aboard the horse-drawn Dean's Carriage that led the parade.

The College by Liberty Hyde Bailey, or “LHB,” as he was known. One of the founding fathers of the College, Bailey came from the Michigan Agricultural College in 1888 to become professor of horticulture at Cornell and was named dean of the faculty of agriculture in 1903.

A botanist by training, Bailey believed science on behalf of agriculture had to be useful to the students and farmers who would put it into practice. He was a man of vision with a decided practical bent, and he broadened the field of agricultural education to include research, resident teaching, and extension.

When Bailey became dean in 1903, he set out to secure funding for the agriculture department and gather support from the farm groups and other agencies involved in agricultural education. Bailey had good working relations with then Cornell President Jacob Gould Schurman, Whitman H. Jordan (director of the Geneva Experiment Station, which was founded in 1880 and became part of CALS in 1923), and F. E. Dawley, director of the Bureau of Farmer Institutes.

Schurman believed that Cornell needed to be “a People’s University . . . for the people of every class and profession,” as opposed to an institution for the landed elite. Men like Schurman and Bailey convinced the legislature to accept their view that the state had a special responsibility to its land-grant institution.

On May 9, 1904, the train reached Ithaca bringing word that New York Governor Benjamin Odell had signed the State Agriculture College bill, appropriating $250,000 for the construction of a college of agriculture on the Cornell campus. This was the signal for a celebration in which more than 2,000 students took part. They wheeled out the big guns from the armory, fired more than 100 rounds of ammunition, and headed to Bailey’s house for a speech.

On May 12, a more official celebration took place, including the parade and a spectacular bonfire (newspaper accounts called it “the biggest ever seen”). Chimes pealed out from the clock tower, followed by a display of fireworks on Libe Slope with a finale that included a ground display spelling out “N.Y. AGR.”

The whole event ended with a banquet at which everything served came from the University’s farm. Among other oddities was a boiled egg at every plate stamped, “Laid on the farm/Brooded over for years/Hatched in Albany.”

On May 1, 1905, the College broke ground for Roberts Hall.
A CALS Gallery of Achievement

Celebrating the Past

Pioneering Plant Breeder
BARRABRA McCLINTOCK '23, PHD '27

With little more than a microscope and a small field of Indian corn she tended herself, geneticist Barbara McClintock rewrote the rules of biology. Based on years of careful observation of pigmentation changes in generations of plants, her theory of gene transposition—which holds that genetic material is not fixed but capable of "jumping" both within and between chromosomes—caused a furor when officially presented in 1951; decades later, molecular biologists confirmed the theory and cemented McClintock's stature as a pioneer in the ongoing efforts to unlock the mysteries of evolution.

McClintock came to Cornell in 1919, where she studied plant breeding and botany, played the banjo, and was elected president of her freshman women's class. After earning her PhD, she was steered into her lifetime work with maize genetics by College of Agriculture dean Rollins Emerson. Her peers in the department included Nobel laureate George Beadle, PhD '30, and Marcus Rhoades, PhD '32, both of whom also became acclimated cytogeneticists. McClintock stayed at Cornell as an instructor until 1936, but did much of her important work at the Carnegie Institute's Cold Spring Harbor genetics laboratory, where she continued her research until her death in 1992. In 1983, at age eighty-one, McClintock won the Nobel Prize, belated recognition for her 1951 breakthrough.

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A Naturalist’s Artist

ANNA BOTSFORD COMSTOCK 1885

As a child, Anna Botsford could identify sixty wildflowers and a dozen constellations. “companionship with life out-of-doors” inspired her personal and professional accomplishments. She completed two years of study at Cornell in 1876 but then left school; she returned two years later, after marrying entomologist John Henry Comstock 1874, and finished her bachelor of science degree in 1885.

A self-taught artist, Comstock produced illustrations for her husband’s lectures that were praised as the work of a master and created wood engravings that were exhibited internationally. In 1888, she was one of the first women initiated into Sigma Xi, a national honor society for the sciences. Circa 1896, Comstock began a series of nature-study leaflets for rural teachers that formed the basis of her _Handbook of Nature Study_, published in 1911. She became the first woman to hold faculty rank at Cornell when she was appointed assistant professor of nature study in 1898, but trustee opposition resulted in her demotion to lecturer. Comstock continued to teach and was named full professor in 1919. In 1923, the National League of Women Voters named her one of America’s twelve outstanding women who “have contributed most in their respective fields for the betterment of the world.”

Struggling for Home and Human Development

MARTHA VAN RENSSELAER ’09

ooked on the Cornell faculty? “Never!” declared President Jacob Gould Schurman in 1899, after New York State Librarian Melvil Dewey suggested offering home economics courses on the Hill. But four years later, Liberty Hyde Bailey appointed Martha Van Rensselaer and Anna Botsford Comstock to teach the University’s first classes on home and family life. Their course became a full-fledged department in the College of Agriculture in 1907, and the two women were eventually named full professors. Then, in 1925, the department became the College of Home Economics, with Van Rensselaer and Flora Rose, GR ’08, as co-directors. (In 1969 it was renamed the College of Human Ecology.)

Van Rensselaer began her Cornell career in 1900, as an extension assistant charged with teaching reading as a correspondence course for farm wives. Her first brochure, “Saving Steps,” incorporated ergonomics, bacteriology, and family psychology to help women increase their efficiency as homemakers. Other early efforts in the field included consumer protection and women’s suffrage.

Today, Human Ecology’s five departments combine research, education, and extension work in nutrition and health, development and the life course, design and technology, and economic and social well-being.
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programs. In 2004, eight students received grants to conduct innovative
studies covering a wide range of environmental issues from virus-plant
interactions to denitrification through endangered species restoration.

The 2004 awardees are listed at
http://environment.cornell.edu/activities/SERGrants/SERGrants.htm

To learn more about the activities of the Center, visit our website:
http://environment.cornell.edu/

Got Milk . . . and
So Should You
DALE E. BAUMAN

Dale Bauman, a professor of nutritional biochemistry in
the Department of Animal Science, made dairy science
his life’s work. Most recently, he has hypothesized possible
anticarcinogenic properties in milk. In
2003, he reported that butter made from
milk containing increased levels of a
natural fatty acid (conjugated linoleic
acid) reduced the risk of breast cancer in
laboratory animals. Bauman has also
received international recognition for his
research on the stimulation of milk
production by the growth hormone BST
(bovine somatotropin). The author of
more than 500 scientific articles, he was
elected to the National Academy of

In 2006, U.S. Agriculture Secretary
Dan Glickman named Bauman to a
newly formed advisory committee on
agricultural biotechnology, and he has
received the USDA Superior Service
Award and the Alexander von Humboldt
Award for research considered significant
to American agriculture. His contributions
to public understanding of food and
agricultural science were acknowledged
with the Council for Agricultural Science
and Technology’s Charles A. Black Award.
Bauman, a Liberty Hyde Bailey Professor,
has been included in Who’s Who in the
World since 1992 and received the CALS
Outstanding Faculty Award in 2000.

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Ruth Berberian Hanessian, Ag '60

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SHAPING THE PRESENT

Stopping Outbreaks of Food Poisoning
MARTIN WIEDMANN

Martin Wiedmann, PhD ’97, an assistant professor of food science who studies molecular pathogenesis and the evolution of bacterial and foodborne diseases, joined the Cornell faculty in 1999. He subsequently developed PathogenTracker, a database that uses the Web to quickly identify and track bacteria outbreaks and provide agencies like the Centers for Disease Control with the information needed to pinpoint the epicenter of outbreaks and contain them. The database, developed with the assistance of engineering, computer science, and food science specialists as well as Cornell students, identifies pathogens through genetic fingerprinting, greatly speeding the process of containing outbreaks and adding to scientists’ understanding of bacterial subtypes and biodiversity. In February 1999, an outbreak of listeriosis was quickly halted by an early version of PathogenTracker.

Wiedmann is also co-coordinator of CALS Food and Water Safety, a cross-disciplinary program that integrates research, teaching, and extension outreach to identify and address food safety challenges. Through this program, he works with food industry professionals, the state health department, and farmers to utilize new technologies and improve practices to prevent the spread of foodborne disease. Wiedmann was presented with a U.S. Department of Agriculture Honor Award in 2001 for his pioneering work.

CALS Did You Know?

Cornell has an AACSB-accredited undergraduate business program. The Applied Economics and Management (AEM) program in CALS is only the second general undergraduate business program in the Ivy League to earn accreditation from the Association to Advance Collegiate Schools of Business (AACSB). This means that a peer group of scholars has examined and approved the content of the AEM program.

www.news.cornell.edu/releases/Jan02/AEM-Accred.html

Cornell Cooperative Extension (CCE) is perhaps the most public manifestation of Cornell University as New York State’s land-grant institution. Jointly administered by CALS and the College of Human Ecology, the CCE educational system helps people improve their lives and communities. It builds partnerships and coalitions with individuals, communities, organizations, government agencies, and businesses that put experience and research knowledge to work.

www.cce.cornell.edu

Post 9/11: Dredging the Hudson River
MARK BAIN

An associate professor in the Department of Natural Resources, Mark Bain spent two years assessing the environmental impact of the September 11, 2001, terrorist attacks in New York City. During the early stages of the recovery effort, emergency dredging was carried out around the piers of Manhattan’s lower west side—four blocks north of the World Trade Center site—to accommodate the barges that ultimately removed 100,000 truckloads of debris from the site. Bain, an aquatic biologist and ecosystem scientist who is also the director of Cornell’s Center for the Environment, led a research team that took samples from eight sites to assess whether there had been any impact, either from the collapse of the towers or the subsequent dredging, to the fish and invertebrates in that area of the Hudson River.

Early results of his study, which wrapped up in the summer of 2004, showed that the variety and health of the aquatic life appear to be satisfactory, but further research is necessary, Bain says. The report also provided a valuable census of aquatic life in the area, and will eventually inform assessments of whether recovery efforts are necessary to restore the ecosystem.
Few faculty have as successfully traversed the roads of the classroom, academic research, and industry outreach as Edward McLaughlin, the Robert G. Tobin Professor of Marketing. Building on the applied problem-solving tradition of agricultural economics, McLaughlin carved out a niche focused not on the production of agricultural products but on the marketing and retailing of food, the single largest consumer goods sector in the global economy. As director of the Food Industry Management Program (FIMP), McLaughlin oversees diverse training programs for food industry managers around the world. When growing student interest in agricultural economics demanded a broader curriculum, FIMP proved to be the intellectual and practical foundation from which the current undergraduate business program in the Department of Applied Economics and Management (AEM) developed.

McLaughlin guided the department through the rigorous accreditation process. Today, the AEM program he directs is one of only two accredited programs of its kind in the Ivy League. A legendary teacher esteemed as “the best of the best,” he is as at home with undergraduates as he is with the food-industry professionals who enroll in the highly regarded Food Executive Program, an executive training program that he also directs.

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Robert J. Ryan, Jr., MBA ’71
Craig A. Buckhout, BS ’79, MBA ’80

Plant Disease Surveillance and Detection
KAREN SNOVER-CLIFT

Because Cornell is a land-grant university, it has a responsibility to protect and advance agriculture in the United States, with a particular focus on New York State. For Karen Snover-Clift ’97, MPS ’98, that means not just the monitoring and eradication of such traditional pests as insects and plant diseases, but detecting pests that may have been deliberately introduced into the environment and guarding against acts of bioterrorism.

Snover-Clift is assistant director of the Northeast Plant Diagnostic Network (NEPDN), as well as a plant disease diagnostician and a senior extension associate. The Plant Disease Diagnostic Clinic, located in the Department of Plant Pathology, has a thirty-year track record of diagnosing plant diseases. In 2002 it became the foundation of the NEPDN, which was selected by the U.S. Department of Agriculture and the U.S. Office of Homeland Security to coordinate an advanced surveillance and detection program in the Northeast.

Snover-Clift has tackled outbreaks of pathogens such as the plum pox virus, surveying New York orchards to make sure that the disease, which severely damaged Pennsylvania fruit crops, had not migrated north. Through the diagnostic clinic, she utilizes DNA-based analysis and advanced communication methods to keep the state and the nation on alert for dangerous pathogens. Working with her colleagues in the NEPDN, she educates other diagnosticians on proper testing protocol and procedures.
Books in Science from Cornell University Press—

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INSPIRING THE FUTURE

He Saw a ‘Big Boy’... And Drew a Surprising Conclusion

STEVEN TANKSELEY

Eight years after he left Cornell, geneticist Oved Shiffriss, PhD ’41, bred the “Big Boy” tomato for the Burpee seed company, transforming the plant from a delicate, sprawling vine that bears small fruit to a compact, disease-resistant bush that rewards hobbyists with full, fragrant fruits that weigh up to a pound. They may be tasty on a BLT, but such tomatoes come at a distinct disadvantage to the plant, which in its wild past relied on small, seed-laden fruits to propagate. Liberty Hyde Bailey Professor of Plant Breeding Steven Tanksley wanted to find the genetic key that allowed the tomato to evolve to more than 1,000 times the size of its tiny ancestors. Collaborating with a computer scientist in the Engineering college, he found the answer in a comparison of human and plant biology—a similar mutation in the “stop sign” gene that would normally tell the tomato to cease cell division also causes abnormal cell growth in people. Doctors call it cancer.

As head of Cornell’s ongoing Genomics Initiative, Tanksley expects to participate in many more such collaborations. “Genomics is the study of the genome, which is the code of life,” he says. “It’s what gives rise to everything that is, everything that was—and, through evolution, everything that will be.”

Abandoning Oil for a Renewable Future

LARRY WALKER

Products produced or derived from plants and microbes may hold the key to the energy and industrial needs of the future. Larry Walker, professor of biological and environmental engineering, has spent a quarter of a century shaping the field of sustainable agriculture and conducting research that he says will turn much of the world toward renewable energy sources and away from a petroleum-based economy.

Walker, a native of Detroit, was drawn early on to the connections between food, population, and the environment and the new area of sustainable development. In his work on renewable energy, he has bridged subject areas and colleges to branch into biology and bioengineering, launching collaborations with other Cornell faculty that are bearing fruit today in the areas of microbiology and nanobiotechnology.

Walker has studied compost piles as complex examples of molecular ecology and cultivated microorganisms for industrial use. He leads a multidisciplinary faculty cluster that spearheaded Cornell’s role with the Sun Grant Initiative, a federal effort to create a network of land-grant universities dedicated to solving the country’s energy needs. Walker mentors graduate students through a U.S. Department of Agriculture program and is a member of the National Biomass Research and Development Technical Advisory Committee.
Mark Sellew '78 BS
Lisa Preger-Sellew '79 BS, '82 MBA

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Information at Your Fingertips

Geri Gay

As the director of Cornell’s Human Computer Interaction Group (HCI), Geri Gay explores the rapidly shifting frontiers of technology and communication—and the real-world impact of the gadgetry that is reshaping society. A professor in the Department of Communication and Information Services, Gay conducts research that deals with the educational possibilities of an increasingly interactive world, studying how classroom computer use can affect learning and developing GPS-enabled hand-held wireless technologies that can function as campus tour guides or help museum patrons learn about and interact with exhibits. In 1985, long before the ubiquity of wireless Web access and cell phones, Gay founded the Interactive Media Group—HCI’s precursor—as a multi-disciplinary think tank that brought computer scientists together with anthropologists, sociologists, and psychologists to address how the information revolution would change the way people communicate. The aim, she says, is to make the most of the technology that surrounds us. “Part of what our group does is stay ahead of things,” Gay says. “We try to envision the future.”
Making Better Wine from New York Grapes
THOMAS HENICK-KLING

As a child growing up in Germany, Thomas Henick-Kling accompanied his father to vineyards and wineries across Europe. He worked in an Australian winery before beginning graduate studies at the University of Adelaide as one of only two enology (winemaking) students. Now an associate professor of enology and director of Cornell’s wine extension program at the New York State Agricultural Experiment Station at Geneva, Henick-Kling has partnered with research groups and winemakers around the world and presented benchmark wines to New York winemakers. His research in wine microbiology has had a major impact on wine quality.

Since 1995, Henick-Kling has co-taught Understanding Wine and Beer, a course so popular that the CALS leadership decided to develop a new undergraduate program to accommodate students interested in careers in the wine industry. Henick-Kling co-chaired the faculty committee charged with developing the curriculum, which combines enology and viticulture (grape growing) studies with courses in food and plant science, business, and hotel administration. The first students enrolled in spring 2004. Hands-on winemaking may eventually be offered through the Cornell Vinification and Brewing Technology Laboratory, a mini-winery dedicated to research and teaching, which Henick-Kling helped establish. It is considered the best of the few such facilities in existence.
2002 HOSMER CAYUGA WHITE

Cayuga is the obedient child of viticulture," says Cameron "Tunker" Hosmer '76, owner and winemaker of Hosmer Winery in Ovid. The white wine grape of which he speaks is early ripening and generally a joy to vinify. "It produces lots of juice that settles well," Hosmer says, "and usually ferments without problems."

The 8,000 case Hosmer Winery, which saw its first vintage in 1985, devotes four-and-a-half of its fifty-three acres of vineyards to the variety. Developed by the New York State Agricultural Experiment Station in Geneva and released in 1972, Cayuga White was created by crossing the Seyval and Schuyler varieties. According to a survey by the New York Agricultural Statistics Service, as of 2001 there were 236 acres of Cayuga White planted in the Finger Lakes region, which would place it third on the list of the area's most planted European-American hybrids.

A taste of the 2002 Hosmer Cayuga White, which costs around $8 a bottle, provides ample evidence of why the variety has achieved popularity. Fresh, clean, redolent of apples, and medium-sweet, this light- to medium-bodied wine is brought into balance by just enough acidity. Hosmer feels that it sings particularly well with hot or spicy Chinese or Mexican dishes. One suspects that most picnickers would likewise find a chilled bottle of this Cayuga White more than agreeable.

— Dana Malley

DANA MALLEY is a wine buyer and the manager of Northside Wine & Spirits in Ithaca.

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Liberty Hyde Bailey, 1858–1954

A MAN FOR ALL SEASONS

Liberty Hyde Bailey was dean when the State Legislature designated the New York College of Agriculture at Cornell. He was a visionary capable of bringing many ideas into practical, workable form, whether it was to amass one of the finest horticultural collections in the world, start a world-class college of agriculture, or recommend an extension and outreach system for the nation. Many of Bailey’s ideas about biodiversity, sustainability, and education are as viable today as they were in 1904.

“Liberty Hyde Bailey continues to be an inspiration to all of us who follow in his footsteps,” says Susan A. Henry, the current dean of the College of Agriculture and Life Sciences. “Long before I came to Cornell, I had admired him as a botanist and a scientist.”

TO FARMERS BORN

Bailey was born in Michigan in 1858 to a hard-working pioneer family who cleared woods, built a farm, planted an orchard, and produced much of their own food and clothing. They earned income from selling butter, eggs, maple sugar, and wood. They were skillful and innovative farmers, and their farm became known for its prize-winning apple orchard that eventually included more than 300 cultivars. Young Liberty became an expert on grafting; his skills were in great demand among his neighbors, and later among his students.

Bailey graduated at age twenty from the Michigan Agricultural College (now Michigan State) in 1878, with a degree in botany. After working at Harvard with the renowned botanist Asa Gray to arrange and classify a large collection of pressed plants from Kew Gardens in London, he returned to Michigan to teach horticulture and landscape gardening.

In 1883, Bailey married Annette Smith, the daughter of a Michigan cattle breeder. They had two daughters: Sara May, born in 1887, and Ethel Zoe, born in 1889. Ethel, an accomplished botanist in her own right, accompanied her father on collecting trips until 1938, helping collect and label specimens.

A LIFETIME OF SERVICE TO AGRICULTURE

Throughout his life, Bailey sought to understand the diversity and taxonomy of plants, and to bring botanical science within the grasp of the ordinary person. It was in the study of cultivated plants that Bailey made his most significant and lasting contribution as a horticulturist. He argued that such plants were especially worthy of study. Genetically complex and inadequately recorded, yet economically important, they presented many problems of classification and nomenclature. Bailey developed new collecting methods and photographic techniques using cyanotypes to document his taxonomic studies of Rubus, sedges, and palms. The resulting collections at the Bailey Hortorium remain among the finest in the world.

In 1888, Bailey joined Isaac P. Roberts at Cornell to create an outstanding team for teaching, research, and dissemination of knowledge about agriculture. He believed that horticulture should be an applied science based on pure biology, and that it should reflect the application of basic botanical knowledge. He was charged with building a new curriculum in practical and experimental horticulture.

As a researcher, Bailey was a lifelong contributor to the science of horticulture. He published the first detailed study of the growth of plants under artificial electric light,
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showed that the growth of greenhouse plants could be increased by raising the carbon dioxide content of the air, and studied the physiology of seed germination and its relation to the quality of commercial seed packets.

Bailey also dominated the field of horticultural literature, writing some sixty-five books and a large number of individual entries in the several encyclopedias that he edited.

Supported by state funding, Bailey began a program at Cornell to teach nature study in rural schools. To him, the fundamental purpose of education was to serve the people. Through extension bulletins, lectures, demonstrations, and farm visits, Bailey and Roberts built support for their programs among the state’s farmers and in the State Legislature.

T
he gene gun was invented by Cornell plant scientist John Sanford in 1987. The revolutionary device made introducing new genetic material into plant cells much easier than previous methods, and it has become one of the standard tools in biotechnology.


As a countryman, Bailey believed that the requirements of a good farmer were fourfold: “...the ability to make a full and comfortable living from the land; to rear a family carefully and well; to be of good service to the community; to leave the farm more productive than it was when he took it.”

In 1904, Bailey convinced the legislature to pass the bill that established the New York College of Agriculture at Cornell. He was the College’s first dean. In that role, he established new departments to complement existing fields of study and appointed Cornell’s first women professors: Anna Botsford Comstock, Martha Van Rensselaer, and Flora Rose.

Bailey was a strong believer in women’s education, and in his nine years as dean he was able to bring his vision into reality. When he retired in 1913, he left behind a well-established Department
The Cornell Football Association was established in 1994 by a small group of former players and loyal fans. The key early founding members of the CFA were Mark Allen ’74, Scott Malaga ’89, and Dan Dwyer ’76. In 1998, Pete Noyes, a Big Red coach since 1977 and the current director of football operations, came on board as the liaison to the CFA.

The mission of the CFA is to support, encourage, and promote Cornell varsity football and to develop and reinforce the bonds between the University and its alumni and friends.

As the CFA enters its 10th year, membership has grown to nearly 1,400. There are numerous CFA events held each year, and the support for Cornell football has become significant. The CFA played a major role in the successful campaign to raise $8 million to renovate and expand Schoellkopf Hall.

The annual big game event is Schoellkopf Sellout II, to be held during the home opener against Yale on September 25. The CFA and the Cornell community will welcome new head coach Jim Knowles ’87 and honor all former football players, led by the teams of 1948-1952, Cornell football’s greatest generation. In support of this event, the CFA is leading a promotion to attract 20,000 fans to Schoellkopf Field to cheer on Coach Knowles and the Big Red. See below for more information about this event.

The CFA invites all alumni and friends to Schoellkopf Sellout II in September. For information, visit the CFA website http://cfa.alumni.cornell.edu or contact Pete Noyes at ppn2@cornell.edu.

Be a part of history on Saturday, September 25, 2004 for the largest Cornell football crowd in recent memory! In celebrating its 10th anniversary, the CFA will honor all former Big Red football players, led by the legendary ’48-’52 teams, as we look to “sell out Schoellkopf!”

Event Schedule

**Friday, Sept. 24**
7:00 to 10:00 p.m.
Welcome reception, Biotechnology Building, G-10 conference room

**Saturday, Sept. 25**
10:00 a.m. to 12:45 p.m.
Pregame tailgate at Crescent parking lot. The celebration begins with live entertainment, music, and a “fun zone” for children. Pick up your tickets and event package at the tailgate entrance.

12:30 p.m.
Organization of all players by year for their parade into the stadium

12:40 p.m.
Former players parade into stadium

1:00 p.m.
Kick-off... Beat Yale!

4:00-5:30 p.m.
Postgame reception at Crescent parking lot tent with Big Red coaching staff

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THE BAILEY HORTORIUM
Bailey collected numerous specimens and books for his own research. At a time when most herbaria concentrated on wild plants, his specimens represented a unique repository of preserved specimens of cultivated plants. Numbering more than 200,000 when Bailey gave them to Cornell, his specimens were enhanced by notes and photographs to create a permanent record, which Bailey called his “card index of the vegetable world.” The collection included materials Bailey gathered during expeditions in Mexico, Central and South America, Europe, and China, as well as novelties he grew as soon as they were introduced. His collection also included nearly 3,000 books about wild
Bailey regarded the orderly treatment of the names of cultivated plants as his most significant contribution to the plant sciences.

To provide continuity for his life's work, Bailey gave his herbarium and library to Cornell University in 1935, specifying that it be called the Liberty Hyde Bailey Hortorium, a term he coined for a place for the scientific study of cultivated plants. The hortorium is now a unit of the Department of Plant Biology.

During his lifetime, Bailey received innumerable awards and honors. He died in 1954 at the age of 96.

---

If the earth is holy, then the things that grow out of the earth are also holy. They do not belong to man to do with them as he will. Dominion does not carry personal ownership. There are many generations of folk yet to come after us, who will have equal right with us to the products of the globe. It would seem that a divine obligation rests on every soul. Are we to make righteous use of the vast accumulation of knowledge of the planet? If so, we must have a new formulation. The partition of the earth among the millions who live on it is necessarily a question of morals; and a society that is founded on an unmoral partition and use cannot itself be righteous and whole.

— Liberty Hyde Bailey (from The Holy Earth, 1915)
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Cornell scientists have unlocked the mystery of molecular communication that prevents inbreeding between some plants. When a "self-related" pollen lands on the stigma of a flower, the flower genetically recognizes it and precipitates a reaction that inhibits pollen tubes from growing.

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A Tale of Two Deans

W. Keith Kennedy, Ph.D. '47, and David L. Call '54, Ph.D. '60, have nearly a century of service to Cornell between them. Kennedy, recognized throughout the nation for his work as an agronomist and by his colleagues for his strength as an administrator, served as the ninth dean of the College of Agriculture and Life Sciences from 1972 to 1978. He retired from the University in 1984. David L. Call, an agricultural economist and the H.E. Babcock Professor of Food Economics in the graduate school of nutrition, was concerned with every aspect of the food system, from diet and health to food production and marketing. He served as the College's tenth dean, from 1978 to 1993. Here are some of their thoughts as we asked them to look back and anticipate the future.

W. KEITH KENNEDY

When you ask me about the biggest changes that occurred during my tenure as dean, I have to say the continuous cutbacks in state funding at a time of great growth and productivity were the most difficult to manage. My predecessor, Charlie Palm, Ph.D. '55, who served as dean from 1959 to 1972, had built very good relationships with the governor and administrators in both the Division of the Budget, but the State University of New York (SUNY) became increasingly involved in the College’s funding process during my tenure. To offset reductions, we had to cultivate additional sources of revenue. One source was federal funding, available under the Hatch Act, the National Science Foundation (NSF), and the National Institutes of Health (NIH). Faculty in the College was quite successful in obtaining federal research grants. And we relied on federal matching dollars to build facilities such as Bradfield and Emerson halls.

Another change that came about as a result of decreased state support was the more aggressive posture we took with alumni to encourage them to support the College. Joe King ‘36, BS Ag ‘38, Laing Kennedy ‘63, and other alumni leaders were instrumental in establishing better alumni relations that helped offset some of the loss in state funding.

International agriculture has been a particular strength of the College since we first established a partnership with the University of Nanking, in China, in the 1920s. Dean Palm expanded the scope of international programs, and we maintained that expansion during my tenure.

Liberty Hyde Bailey set a good model for us as a visionary. He taught us how to deliver information far and wide, and how to cultivate friends in Albany and farm organizations around the state. Our friends in the New York Farm Bureau and the New York Ag Society have been important to us. Liberty Hyde Bailey showed us how to build an effective land-grant institution with their help.

Of course, I may be biased, but the quality of students and faculty is particularly critical in the agricultural and life sciences. Historically, the College has been able to recruit some of the best in the world. Of that, I am enormously proud, and I fully expect it to continue.

DAVID L. CALL

The College is a dynamic institution and has been undergoing change since it was first established. One of the ongoing changes that occurred over the past fifty years is the substantial change in the structure of New York agriculture to fewer, larger farms. If we had continued to rely on enrollment from rural areas or farm-reared youth, enrollment would have plummeted. Under my watch, we chose to broaden our appeal by developing new curricula and majors in the social sciences, the life sciences, and the environment to attract a student body that was changing.

Another major change was the revolution in biology that started with Crick and Watson back in the 1960s. In the mid-1980s, when substantial numbers of faculty were retiring from production agriculture, we took the opportunity to redefine our mission and focus additional resources on the biological sciences. Reorganization also allowed us to increase the number of female faculty and students, which further strengthened our base and allowed us to move into a leadership position in the new area of biotechnology.

Then there was the revolution in information technology. When I was named dean in 1978, there were two personal computers in the College, and both were handmade from Radio Shack kits. We had to find the money and the infrastructure to support this overwhelming paradigm shift.

I also agree with Keith: the decline in state funding and the increasing role of SUNY have meant we have had to broaden our support among our stakeholders and our alumni, and look harder for other sources of funding. In Cornell’s capital campaign, held from 1990 to 1995, the College surpassed an ambitious $55 million goal under John Dyson’s leadership, and raised more than $138 million. That significantly increased the College’s endowment and built important new relationships with alumni and friends.

But what’s going to be important in the years ahead is the same thing that’s been important in the past: the quality of our faculty and the quality of our students. Hire the brightest and the best faculty and depend on them to lead the College in the right direction as far as research and teaching are concerned. Offer them decent salaries and good facilities, and provide them with the best students.

Good administrators and staff help determine the direction of an institution—but it is the faculty and the students who will lead CALS into the future.
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