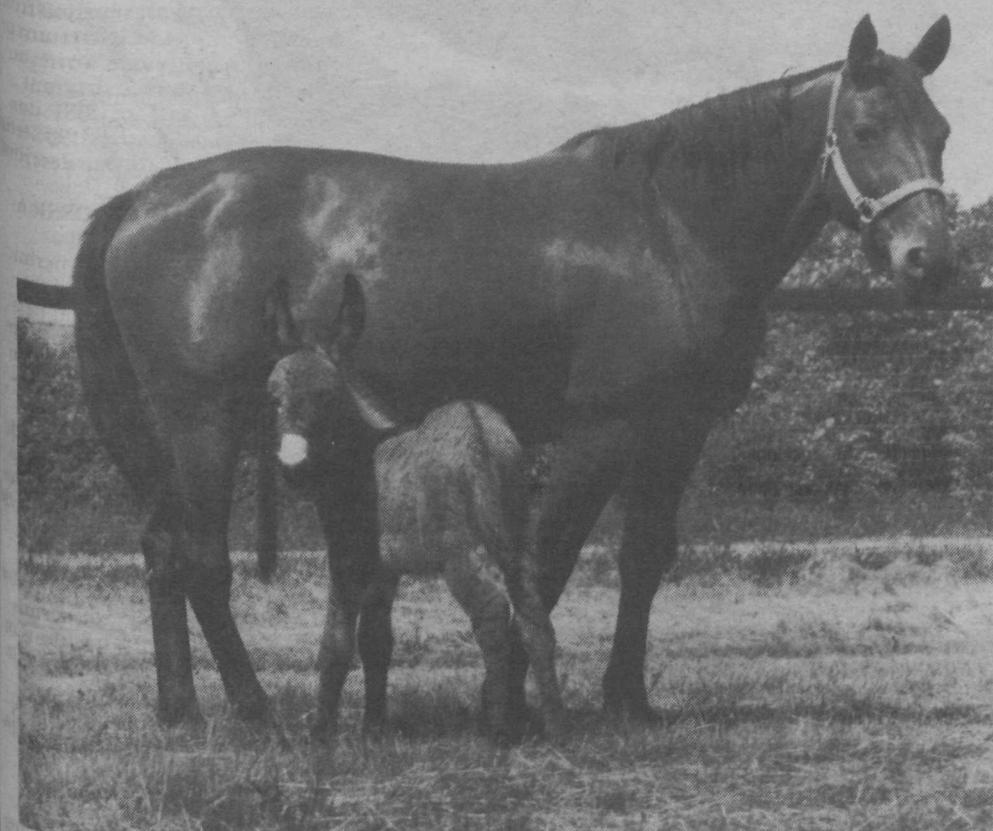


Cornell Chronicle

Networking
This issue contains a special section of Networking, including the regular four-page insert plus another eight-page section showing winners in the annual Networking Photo Contest.

Volume 16, Number 39

Thursday, June 20, 1985



Baby donkey 'Adorable Louise' and her mother, mare 'Adorable Helene.'

Latest Rarity: A Donkey Born to a Mother Horse

By ROGER SEGELKEN
Embryo transfer studies at the State College of Veterinary Medicine here have produced another rarity — a donkey born from a surrogate mother horse.
Born May 30, the healthy baby — "Adorable Louise" — is the result of immunological treatments that prevented the mare from rejecting the fetus of another species. The birth is the first of its kind in this country and one of the few successful cross-species pregnancies achieved by embryo transfer in mammals.
Conducting the experimental work were Dr. Douglas F. Antczak, associate professor of immunology at Cornell, and Dr. William R. Allen, director of the Equine Fertility Unit of the British Thoroughbred Breeders' Association in Cambridge, England. Last year,

reproductive immunology studies by the same team resulted in the births of two horses and one donkey to normally sterile mules, also as a result of embryo transfers.
The latest experiments are part of a continuing study, funded in part by the National Institutes of Health, on spontaneous abortions — how a fetus and a mother adapt to one another and why a mother accepts or rejects the "foreign" body that is the fetus.
"We know that if you take embryos from donkeys and put them into horses they usually abort very early in the pregnancy," Antczak explains. "This seems to be due to failure of formation of a small part of the placenta, the endometrial cups. They form in normal donkey pregnancies, in normal horse pregnancies, and when a mare and a jackass mate

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\$7.5 Million Ceramics Program Started Here

Ceramics today are most commonly found in bricks, bathroom fixtures, and fine dinnerware. The ceramics of the future, though, will be widely used in engines, electronic components, and maybe nuclear reactors.
Before ceramics can replace metals in a wide range of products, however, researchers must discover how to reduce their brittleness in order to utilize their hardness and resistance to extreme heat.
Toward that end, Cornell has created a \$7.5 million high-technology ceramics research program in cooperation with industry and possibly the federal and state governments.
Three corporations, including a leading computer company and a major ceramics firm, have been asked to commit at least \$1.5 million each over five years. They have already indicated their intent to provide substantial funding. Additional corporations may participate, \$600,000 per year is being sought from the National Science Foundation, and discussions have been held with the New York State Science and Technology Foundation, says Arthur L. Ruoff, director of the program and Director of the Department of Materials Science and Engineering at Cornell.

"The ceramics industry is going through a revolution," Ruoff says. "But, there is a severe shortage of scientists and engineers trained in high-technology ceramics. Without an immediate and substantial effort, the United States could lose much of the future ceramics market to Japan."
Cornell's program will begin this fall and will eventually train five postdoctoral researchers and award seven Ph.D.'s in ceramics each year, placing Cornell among the top half-dozen American universities conducting ceramics research, Ruoff says.
Unlike traditional ceramics, which are made from clay, sand, and other materials, modern ceramics are produced from materials such as silicon, carbon, aluminum, and nitrogen. Those raw materials are much more abundant in nature than many of the metals currently used in manufacturing.
In addition, high-tech ceramics are harder than metals, have much higher melting points, and, depending on the particular ceramic, can serve as electrical insulators or conductors. They also may be magnetic.
Ceramics may be used to make pumps, bearings, turbine blades, or other parts that

could allow automotive and jet engines to operate at a much higher temperature than is now possible, increasing engine efficiency by as much as 50 percent.
In the electronics industry, improved ceramic packaging of computer chips "could be as significant as the development of the chip itself," Ruoff says. Ceramic packaging serves as both an electrical insulator for the numerous leads needed to distribute electrical signals, and as a conductor of heat, helping to cool increasingly powerful computer components.
But, as anyone who has dropped a piece of china realizes, the strength of ceramics is no match for their brittleness when they are hit with a sudden force.
Researchers are hoping to solve the brittleness problem by studying the molecular bonding in ceramic materials, and by improving the process used to manufacture ceramics, Ruoff explains.
Discovering a more cost-effective way to mold ceramics into complex shapes is also needed to give ceramics wider industrial uses, Ruoff adds.
Cornell's ceramics program is a collaborative venture of the Materials Science Center at Cornell, which is sponsored by the National Science Foundation, and the Department of Materials Science and Engineering. At maturity, the program may involve 10 or more Cornell scientists and their research groups, two or three participating scientists from each collaborating industry, and a support staff.
The Materials Science and Engineering department at Cornell was the first to integrate the study and teaching of ceramics, metals, polymers, and semi-conductor materials, Ruoff says. Funding for materials research at Cornell is approximately \$20 million per year.
The new program will draw on the previous research of three ceramic scientists at Cornell, including Rishi Raj, associate director of the new ceramics program and a professor of materials science and engineering. A visiting professorship will be established to bring one researcher from elsewhere to Cornell each year to participate in the program.
Scientists in the program will conduct basic research, rather than research aimed at a specific commercial problem. All patents will be held by Cornell.

Cornell's CLIMOD Takes the Guesswork Out of Weather

People interested in quickly obtaining accurate and up-to-date weather and climate information can do so, thanks to a new computer-assisted information system recently installed here.
For a modest fee, subscribers with computer on-line capabilities can receive weather maps and forecasts for the United States; wind chill and dewpoint figures; historical climate data for the Northeast since the late 1800s; graphs of daily, weekly, and monthly temperatures; and monthly climate summaries.
The new system upgrades the dissemination of weather and climate information by receiving data via satellite and displays it on an interactive computer system. This recent breakthrough has been developed by the Northeast Regional Climate Center (NRCC), established at Cornell in 1983.
The center is the keystone in constructing

a nationwide system of climate services required by the National Climate Program Act, according to Bernard E. Dethier, director of the NRCC. Dethier, a professor of meteorology in the meteorology unit of the agronomy department in the New York State College of Agriculture and Life Sciences at Cornell, is also a climatologist for New York state and Maine.
The NRCC acts as a climate resource for more than 50 million people throughout the Northeast and adjacent areas of the United States, and strengthens the growing meteorology industry by helping make the study of weather more accurate, says Dethier.
The NRCC conducts research and provides services to meet the needs of its users throughout the northeastern region of the country. In addition to meteorologists, users

of the NRCC services include more than 100 local, state and federal government offices; 125 schools and universities, the news media, Cooperative Extension agricultural agents in New York and other states, ski area operators, and contractors.
NRCC staffers, with the cooperation of state climatologists and scientists throughout the Northeast, assess effects of climate to develop new applications of weather data to agriculture, commerce, and industry, Dethier explains.
An extensive historical and real-time data bank in the NRCC computer is now available for users. This information enables users to take most of the guesswork out of activities such as developing planting schedules or construction starts.
Cornell's Dethier says that users with computer access have more than 1,700 products available to them through the center's CLI-

MOD (Climate Information for Management and Operation Decisions) program.
In addition to the computer program, the NRCC issues special fact sheets on abnormal climatic events affecting the Northeast as they occur and monthly publications, including weather highlights, drought maps, monthly regional outlooks, and pertinent articles on climate and past weather trends.
Dethier hopes to expand the program's capabilities by installing a toll-free telephone number to make the NRCC's computer-generated information and services more appealing to potential users.
In the meantime, anyone wanting more information about the services available through the Northeast Regional Climate Center should contact Dethier at (607) 256-3034.

The Changes at CESR: What They Mean to Physics

Eight thousand blocks of an expensive salt — cesium iodide — and an array of sensitive electronics will allow elementary particle physicists at the Cornell Electron Storage Ring (CESR) to measure the energy of photons with great precision.

Installation of the new array, which at 30 tons will be the largest of its kind in the world, is part of the upgrading of experimental facilities made possible by a \$36 million grant from the National Science Foundation to the Laboratory of Nuclear Studies at Cornell University.

Other improvements to Cornell's Wilson Synchrotron Laboratory, the principal high energy physics facility of the nuclear studies laboratory, include increasing the "luminosity" of the colliding beams in the electron storage ring, a phased replacement of the massive particle detector known as CLEO, a very substantial increase in computing power, and an addition to the laboratory building.

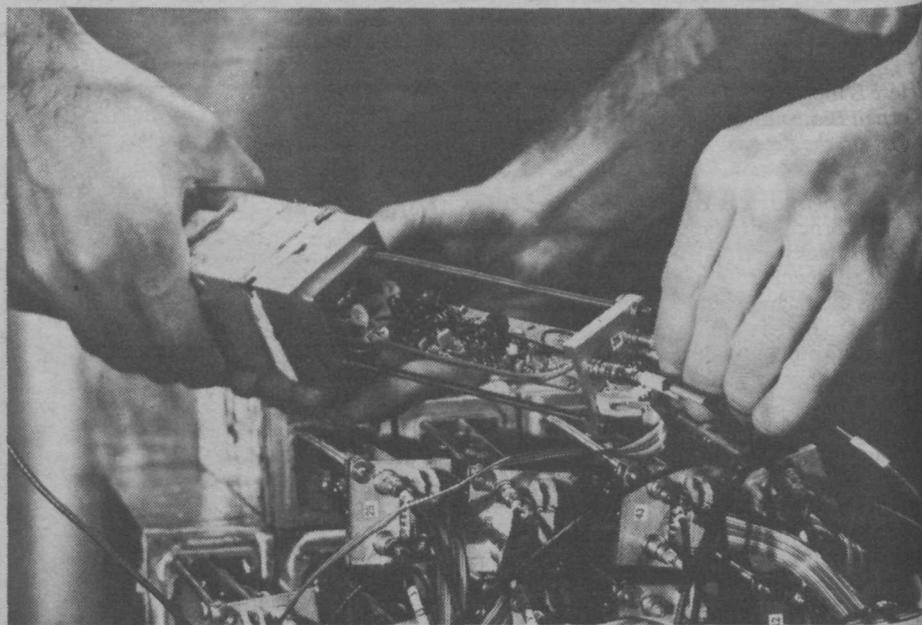
Electron and positron beams circulate in opposite directions in CESR (pronounced Caesar) so that bunches of electrons and positrons encounter each other about 3 million times a second at the two collision points where two detectors, CLEO and CUSB (Columbia University - Stony Brook collaboration), are set up. The "luminosity" is a measure of the rate at which actual collisions between the tiny point-like electrons and positrons can occur, resulting in interesting "events" that physicists can study. The most interesting events are very rare, occurring only a few times each minute, even though there are 100 billion electrons or positrons in each bunch.

Since the start-up of CESR in 1979, many unique discoveries have been made at the national facility, most of them related to the new fundamental particle known as the b-quark or "botton" quark. CESR operates in and above the energy range where the b-quark can just begin to be produced, at 10 GeV (10 billion electron volts). Thus, CESR is a unique laboratory for study of the newly discovered particle. At higher energies, where other laboratories such as SLAC at Stanford University and DESY at Hamburg, West Germany, operate, the b-quark is produced at a much lower rate and with so much other debris that the information about it is very hard to extract.

Further detailed study of the b-quark requires the collection of thousands of many different kinds of rare events with more sophisticated detection equipment than is now built into CLEO.

"The accelerator physicists at Cornell are working hard to increase the luminosity of CESR by a substantial factor," according to Nariman B. Mistry, senior research associate in the laboratory. "The luminosity will be increased by installing new equipment and by thinking of clever ways of storing more particles into each beam. Understanding the quirks of beam stability requires large amounts of computing and modeling of the new configurations."

Meanwhile, the consortium of nine universities and more than 70 physicists that comprise the CLEO collaboration has already embarked on improvements to the detector. The first phase, the installation of a new precision vertex-detector at the very center of CLEO, was completed in August 1984. It has been operating well, yielding new precision



Eight thousand cesium-iodide blocks and sensitive electronics, similar to these prototypes; will be used in the CLEO-II particle detector.

track measurements near the collision point.

The next stage is the installation of a new drift chamber, replacing the present one. This is the device that tracks particles emerging from the collisions through the vertex-detector and measures their energy. The new chamber under construction at Wilson Laboratory is expected to be installed in January 1986. These two steps were planned earlier, and approval and funding by the NSF were obtained previously.

More ambitious and complex are the next stages, which will not be completed until late 1987 or early 1988. The new drift chamber will be surrounded by detectors to measure the arrival time of the emerging particle to fractions of a billionth of a second. Surrounding the detectors will be about 8,000 large crystal blocks of cesium iodide, a salt similar to ordinary sodium chloride. These crystals will measure with high precision the energy of photons, which are high energy X-rays and do not leave measurable tracks in other detectors.

The cesium iodide array will be the most expensive part of the rebuilt CLEO, using very sensitive electronics to detect the tiny pulses of light in the crystals.

All these components will be inserted in a large cylindrical superconducting magnet

coil capable of producing a very strong magnetic field. Surrounding the magnet coil will be tons of iron absorber, interspersed with detectors to trace mesons, which can penetrate the iron.

The complete assembly will be called CLEO-II.

To collect and analyze the millions of "bits" of data collected by the detectors requires a very powerful computing facility. "Although there is already an impressive array of computers at Wilson Lab, the increased rate and complexity of the new data will require an expansion by a factor of five," Mistry explains. "Various options are being studied in detail, and a greatly expanded computer facility will be part of the upgrade."

To accommodate the new computers and the physicists working with them, an expansion of the building at Wilson Lab is also in the works. The \$1.36 million building project was prompted by the need for more space for CHESS, the synchrotron radiation facility that uses X-ray beams from CESR for materials science, biological, and other research. Funds for this were allocated earlier by the NSF and by Cornell University, and construction of the building has already started.

Donkey Born to Horse

Continued from Page 1

to produce a mule. They fail to form in only one kind of equine pregnancy, when you transfer a donkey embryo into a mare (female horse)."

In addition to unraveling the mystery of the function of endometrial cups, the reproductive immunology researchers at Cornell and Cambridge are trying to determine the causes of early equine abortions. The endometrial cups in equine species may be the key to why the pregnant mother does not reject and abort the "foreign" body she is carrying.

"We have tried to alter the response a mother horse makes to the donkey fetus," Dr. Antczak says. The treatment that has been most successful involves injecting the surrogate mothers with white blood cells from the mother and father of the embryo. It is believed that this treatment may change a destructive immune response against the fetus to one that is protective. However, the exact mechanisms which allow the donkey fetus to

survive in a mare are not fully understood."

The donkey embryo was removed from the genetic mother about eight days after conception and transferred to the surrogate mother horse. Treatments of the surrogate mother with white blood cells from the donor donkeys began 20 days after embryo transfer.

The same effect may occur in humans, Dr. Antczak says, noting recent studies elsewhere of chronically aborting women who achieved successful pregnancies after treatments with white blood cells from their husbands. "There are many similarities between the unsuccessful human and donkey-in-horse pregnancies," he states.

"The horse model presents an interesting system for studying the immunological aspects of pregnancy that may have relevance on human health," says Dr. Antczak, whose NIH funding comes from the Institute of Child Health and Human Development.

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Community Fireworks Show Will Be July 1 at Schoellkopf

The 38th annual community fireworks show will take place Monday night, July 1, at Schoellkopf Field on the Cornell University campus.

The event this year will feature the usual musical and marching units in the pre-dark show, followed by an hour-long fireworks display by the American Fireworks Co. of Utica.

As in the past, special parking and traffic arrangements will go into effect to handle the expected 20,000 spectators in the stands, plus the thousands more on hills surrounding the city, according to this year's general chairman, Randall E. Shew. Rain date for the show will be Tuesday, July 2, he said.

The pre-dark show will include Joe McConnell and his big band, plus two drum and bugle corps, the Quest from Owego and another corps yet to be named.

Area volunteer firemen will once again cover the artificial turf on the playing field with tarpaulin, then hose it down, and probably wind up in the usual waterfight after finishing the job, Shew said.

He said the show was a little late getting

started last year because one of the musical groups had trouble in traffic, but promised that the fireworks display will get under way on time this year, at about 9:15 p.m., when darkness usually comes at that time of year. The pre-dark show starts at about 7:15 p.m.

Vincent Speciale of the fireworks company has promised a greatly expanded ground display for the people inside the stadium, and also plans a bigger opening aerial show, plus a more spectacular finale.

In the event of weather problems, announcements will be made on area radio stations. Also, an aerial salute will be fired at Schoellkopf Field every hour on the hour starting at 1 p.m. if the show is still scheduled to go that evening.

BIOTECHNOLOGY: II

Tailoring Plants and Animals to Be More Useful

(Here is the second of three articles on the Cornell Biotechnology Program. Today: Scientists in the program explain biotechnology.)

By JUDY STEWART

The Cornell Biotechnology Program is in Ithaca's backyard, yet many Ithacans are unclear about what biotechnology is and may dismiss biotechnology research as too complicated to understand.

"As the public becomes more aware of biotechnology, scientists must be more responsible in relaying what this new high technology is all about," said Roy Snoko, resident industrial scientist in the Biotechnology Program from Eastman Kodak Co., where he is a research associate in the biosciences division.

"Biotechnology is a series of skills and the ability to use those skills is a fantastic tool. If we use this definition as a framework for understanding what is going on at Cornell, and throughout the country, it eliminates some of the tensions of what biotechnology is," Snoko said.

Peter Bruns, associate director of the Cornell Biotechnology Program and professor of genetics and development, explained biotechnology by giving a very old and familiar example.

"That example is using yeast to make bread or beer, depending on what your interest is," Bruns said. "For generations, strains of yeast have been cultured for either purpose, and that is biotechnology, although nowadays we are more sophisticated."

"Biotechnology is two things," Bruns explained further. "One, it is harnessing existing biological systems for certain tasks. Second, as a natural extension of that, it is altering naturally occurring systems to make them even better for those tasks."

As an example, Bruns explained how Cornell scientists will use biotechnology.

"One direction we're taking in biotechnology is tailoring plants and animals to be more useful in applied situations," Bruns said. "That involves putting different genes into plants or animals. The traditional way of doing that is called breeding, only the traditional method is slow and difficult to control."

At Cornell's agricultural research station in Geneva, scientists are looking for better ways to grow grapes for wine.

"If growers want to make a strain of grape

more disease-resistant or produce a higher yield, the traditional way has been to change the genes by breeding in other genes from other strains. The problem is that flavors are very complicated sets of many molecules also controlled by genes, and when you start changing a whole bunch of genes, you lose taste," Bruns explained.

"So, the people at Geneva would like to be able to change genes one at a time — in a sense, do genetic surgery. We know that we can do that now in some bacteria and in yeast. We can take a gene out, work with it in a lab, and replace it," Bruns said. "But

One example is using yeast to make bread or beer, depending on what your interest is

we need to know a lot more basic science — how things work — to understand how we can do this in grapes, or in other biological systems."

Another direction biotechnology takes is in tailoring molecules to be more useful, Bruns said.

"In one of our labs, a chemist and a geneticist are working together to make a more stable enzyme, on the theory that an enzyme will be more efficient and useful if it does not break down easily. The chemist makes models of how an altered enzyme might work and the geneticist alters the gene that produces the enzyme," Bruns explained.

Brun also used this example to demonstrate that the program emphasizes basic research — that is, research with no immediate application to a marketable product — and that it endorses the collaboration of scientists from different fields.

Milton Zaitlin, associate director of the Biotechnology Program since its inception, and professor of plant pathology, explained that the intent of the program is to support inter-disciplinary research projects.

"We're trying to get good people together — people who would not have gotten together if it hadn't been for the catalyst of the program's money," Zaitlin said.

"For example, a plant pathologist and a chemical engineer are working together to see if a certain bacterium that infects plants can be used to get rid of certain agricultural waste products," Zaitlin said. "They're try-

ing to do this by moving genes around." He cited as another example a project between an electrical engineer and a plant scientist where the scientists are testing unique ways to move foreign genes into plants.

As a plant scientist Zaitlin has been astounded by the rapid breakthroughs biotechnology has brought to his field.

"There is a lot of excitement in the plant world because of the capacity to move genes around," he said. "If someone had said three or four years ago this would be so easy, I'd have questioned their sanity. It's been a remarkable revolution."

Zaitlin explained that the ability to put foreign genes into plants and have them expressed means that plants can be transformed with more desirable traits, such as salt tolerance, heat tolerance, and disease resistance.

"However, the gene for these traits must first be identified," Zaitlin added. "Cornell researchers now are looking for some of the genes. For example, if you want to transform a plant with a disease-resistant trait, you have to be able to first identify the genes that code for that trait. Furthermore, some of the traits we wish to transfer are controlled by many genes, so the task will be difficult."

Zaitlin described other projects in his field, which include using tissue culture to investigate new and useful products from bacteria or plant cells, and devising ways to make plants that are resistant to certain viruses.

As a visiting industrial scientist, Snoko has

rotated among several research laboratories on campus. He talked about the work he has been doing in biotechnology.

"I have been studying a plant virus that was isolated here in New York. We're trying to learn something about the genes involved in the growth and development of this virus. Once we understand how it works, then we can control it. Perhaps we can even develop more stable and resistant crops here in this state," Snoko said, adding that these applications are ambitious and are still far in the future.

What is biotechnology?

When applied, biotechnology is such things as changing a plant's tolerance to salt; using a bacterium to make insulin; or using an enzyme to make an important chemical, Snoko said. Biotechnology is using any plant or cell or enzyme to make useful products.

Snoko and Bruns predicted that the basic research supported by the Biotechnology Program will lead to spectacular scientific advances and revolutionary new products which promise economic benefits to New York state.

Zaitlin added that, while the philosophy of the program is to support basic research, "We're certainly not blind to the fact that some of the things we do will have an economic impact, and we're very happy when that happens."

(Next: The future of biotechnology. What will be the economic benefits to the state and to Tompkins County? Is there a cloud in the future?)

Biotechnology Symposium June 23-27

Recent advances in biotechnology in the plant sciences and their potential for application to plant breeding and to agribusiness will be explored in an international symposium on campus June 23-27.

More than 500 participants from the United States and several other countries, including Australia, England, Germany, Hungary, and Japan will attend the international symposium "Biotechnology in Plant Science: Relevance to Agriculture in the Eighties." It is being organized by the Cornell Biotechnology Program, which promotes research in biotechnology with emphasis on molecular aspects of genetics and cell biology with applications to plant, animal, and cell production.

Established in 1983, the Cornell Biotechnology Program is comprised of the New York State Center for Advanced Technology for Biotechnology at Cornell, which is supported by New York State, and the Cornell Biotechnology Institute, supported by several private corporations. The program sponsors a wide range of research projects in molecular biology and genetics.

Politics, Parties and Pride Mark '5s and 10s' Reunion

By MARK EYERLY

Mix a little politics with a fair number of parties and a lot of pride, and what do you have? The 1985 Cornell Reunion.

A record 2,310 alumni — accompanied by some 2,000 spouses, children and even grandchildren — visited campus last weekend to sharpen their minds, renew old friendships and recall the glory days of an earlier time far above Cayuga's waters.

Those glory days were much earlier for some than for others. Sadie Britton, 94, of Albion, N.Y. and the Cornell class of 1913, was the oldest graduate present, while 197 members of the 1980 class returned to their alma mater.

"It was a fantastic reunion weekend," said Frank R. Clifford, director of alumni affairs. While the weather resembled homecoming more than reunion, "People were saying, 'Thank goodness it's not like last year,'" Clifford said. "Last year it was sweltering."

The weekend's politics included a lecture by former French President Valéry Giscard d'Estaing, who told his Bailey Hall audience that the nations of Europe should adopt a



Reunion Run Saturday morning found the truly serious runners bursting ahead of the crowd at the start.

shared European Currency Unit to increase the influence and economic prosperity of the region.

On Friday afternoon, three Cornell faculty — Walter F. LaFeber, the Marie Underhill Noll Professor of American History; Theodore J. Lowi, the John L. Senior Professor of American Institutions; and Joel H. Silbey, professor of American history — dis-

cussed "The Reagan Revolution in Retrospective" before a large crowd in Statler Auditorium.

Also on Friday, a four-member panel discussed "Divestment at Cornell: Understanding the issues" before about 175 people in Goldwin Smith Hall.

Some alumni also discussed the divestment issue with protestors who continued to main-

tain a "shanty town" near Day Hall during the weekend.

The weekend's parties included six class tents that lent a touch of carnival atmosphere to the Arts Quad, as the tents were grouped in the same geographic area for the first time. Bands performed in each tent as alumni mingled and danced the nights away.

Continued on Page 8

Cornell Summer Launches Series of Events This Weekend

This week marks the beginning of Cornell Summer's season-long schedule of special events. On Friday, June 21 — the first day of summer — the Hearts of Oak Morris Dancers, a local group of dancers who perform Old English ritual dancing and music, will perform on the Arts Quad at 3:30 p.m.

The Cornell Summer Concert Series opens Monday, June 24, with an organ recital by Stephen May at Sage Chapel. The program, which begins at 8:15 p.m., will include Bach's "Passacaglia," "Sonata No. 1" by Paul Hindemith, and "Fantasia and Fugue on 'Ad nos, ad salutarem undam'" by Franz Liszt.

Outdoor musical performances are scheduled every Tuesday and Thursday at 7 p.m. on the steps of Goldwin Smith Hall, beginning June 25 with the rock band Foots, and June 27 with Australian folk and protest singer Judy Small (see accompanying article).

The Wednesday night Summer Session Lecture Series will commence June 26 with Stephen Prokopoff, director of the Krannert Art Museum, University of Illinois — Urbana. Prokopoff, who organized the current showing of the Prinzhorn collection at the Johnson Art Museum, will address "Madness and Art: The Prinzhorn Collection and Modern Art." The lecture will be in Bailey Hall at 8:15 p.m.

In addition to Prokopoff's lecture, there will be a walking tour of the Prinzhorn show on Thursday, June 27, beginning at 4 p.m., and led by Sander L. Gilman, professor of history of psychiatry, Cornell University Medical College. The Prinzhorn exhibition will be at the Johnson Museum of Art through June 30th.

Every Thursday, beginning June 27 at 12:15 p.m., the brown-bag lunch lecture se-

ries to be held in G94 Uris Hall will feature experts from the Cornell community. The first will feature Raymond N. Fougner, director of Cornell's American Indian Program, discussing "The Oneida Indian Land Claim Case; An Oneida's Perspective." Fougner will present the historical background of the case, personal accounts of the case's development, and provide an Oneida's

perspective on the importance of the Supreme Court's decision.

Other events of the week include a tour of Uris Library at 4 p.m. Monday, June 24, and a concert on the terrace at Willard Straight Hall at 5 p.m. Friday, June 28.

Other upcoming events include the Summer Shakespeare Festival opening July 4 with *Macbeth*, the Festival of Traditional Jazz

noon - 6 p.m. Saturday, July 13, and the outdoor music festival 1 - 5 p.m. Saturday, July 27, featuring the Burns Sisters and Urban Blight on Libe Slope.

Judy Small to Perform in Concert Here June 27

Judy Small, one of Australia's best known and respected singers and songwriters, will perform here at 7 p.m. Thursday, June 27, in an outdoor concert on the Arts Quad.

Currently on tour in the U.S., Small toured last summer in North America, where she sang to enthusiastic audiences at several folk festivals including Winnipeg, Vancouver, and Philadelphia Folk Festivals, the Portland World Music Festival, and Michigan Women's Music Festival. Her rich and powerful voice, in combination with her witty and thought-provoking lyrics, has gained her a loyal following among those who appreciate music that addresses political and social issues.

Small belongs to that ongoing tradition of folk and protest singers and songwriters to whom the message is more important than the fame. Before she toured in this country, audiences were already familiar with her music through the widely acclaimed song, "Mothers, Daughters, Wives," which has been performed by Holly Near and Ronnie Gilbert, Frankie Armstrong, Sally Rogers, and Pete Seeger.

"Mothers, Daughters, Wives," the title cut of her second album released in the U.S. "was written for my mother and all those other mothers of her generation who have

seen three generations of their menfolk go off to war," Small explained in a recent interview with *Fast Folk* magazine.

As a writer, Small has a knack for portraying people in song. She uses humor, satire, and a wide range of styles to introduce ordinary people like Beatrice Bush, "The White Bay Paper Seller," a bag lady in "Just Another Crazy on the Street," and "Bridget Evans," for the women of Greenham Common as well as a cutting and funny "Song for the Roly-Poly People."

Born in New South Wales, Small grew up listening to the songs of the 1960s folk music "boom." She was influenced by the music of Joan Baez, the Seekers, and Peter, Paul and Mary. As a student at the University of Sydney, she sang occasionally in folk clubs. In 1982 she quit a job as a community counselor to devote herself to performing and songwriting. By the end of the year she had released her widely acclaimed first album, "A Natural Selection." Small's third album, "One Voice in the Crowd," as well as "Mothers, Daughters, Wives," have been released in the U.S. by Redwood Records.

Small's June 27 concert is one of a series of Cornell Summer outdoor concerts on the Arts Quad scheduled for Tuesday and Thursday evenings from 7 to 8:30 p.m.



JUDY SMALL

These concerts are free and open to the public. In the event of rain, the concerts will be held in Goldwin Smith Hall's Kaufmann Auditorium.

Complete Schedule of Public Events on Campus During Cornell Summer

The events listed in this calendar are sponsored by the Division of Summer Session, Extramural Study, and Related Programs unless otherwise noted. Most events are free of charge. The public is cordially invited to participate.

A complete schedule of films (sponsored by Cornell Cinema) and other campus activities is given in the publication *Cornell Summer 1985 Services, Resources, and Events*. Copies of that guide are available at the summer session office, B12 Ives Hall.

For most of the outdoor events, alternate locations have been designated in case of rain. Although changes in the schedule are not anticipated, up-to-date information can be obtained in the weekly editions of the *Cornell Chronicle*, through CUINFO (256-6200), or by calling the summer session office at 256-4987.

June

- 21, 3:30 p.m. Dance Performance: Hearts of Oak Morris Dancers — Arts Quad
- 24, 4 p.m. Tour of Uris Library — begins in lobby
- 24, 8:15 p.m. Concert: organ recital, Stephen May — Sage Chapel
- 25, 7 p.m. Outdoor concert: Foots (rock band) — Arts Quad
- 26, 8:15 p.m. Lecture: "Madness and Art: The Prinzhorn Collection and Modern Art," Stephen Prokopoff, director, Krannert Art Museum, University of Illinois, Urbana — Bailey Hall
- 27, 12:15 p.m. Brown-bag lunch lecture: "The Oneida Indian Land Claim Case: An Oneida's Perspective" Raymond N. Fougner, director, Cornell's American Indian Program — G94 Uris Hall
- 27, 4 p.m. Walking tour of the Prinzhorn Collection, Sander L. Gilman, professor of history of psychiatry, Cornell University Medical College — Herbert F. Johnson Museum of Art
- 27, 7 p.m. Outdoor concert: Judy Small (folk singer) — Arts Quad
- 28, 5 p.m. Terrace concert, sponsored by Willard Straight Hall — Straight Terrace

July

- 1, 4 p.m. Tour of Uris Library — begins in lobby
- 1, 6:30 p.m. Architecture of Cornell: a walking tour — begins at southwest archway entrance to Balch Halls
- 1, 7 p.m. July 4 celebration: band performances, sponsored by the Community Fireworks Committee — Schoelkopf Field
- 1, 8 p.m. Concert: cello-piano duo recital, pianist Josephine Gandolfi and cellist Stephen Harrison, faculty members of Stanford University — Statler Hall auditorium
- 1, 9 p.m. July 4 celebration: fireworks display, sponsored by the Community Fireworks Committee — Schoelkopf Field
- 2, noon Shakespeare lunch lecture: "Introduction to Shakespeare," Rachel Ehrlich, lecturer, and Anthony F. Cronin, director, Cornell Summer Shakespeare Festival — A.D. White House garden
- 2, 7 p.m. Outdoor concert: Ithaca Concert Band — Arts Quad
- 3, noon Tour of Miss Minn's Garden, Robert G. Mower, professor of floriculture and ornamental horticulture — Miss Minn's Garden, Tower Road
- 3, 4 p.m. Tour of Robison York State Herb Garden, Raylene Gardner, Cornell Plantations education coordinator — Cornell Plantations headquarters building
- 3, 8:15 p.m. Lecture: "Reality and Illusion in American Politics: The Story of Willard and Other Straights," Richard Polenberg, professor of American history — Statler Hall auditorium
- 4, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 5, noon Brown-bag lunch lecture: "Television and Society," Cynthia L. Scheibe — G94 Uris Hall
- 5, 5 p.m. Terrace concert, sponsored by Willard Straight Hall — Straight Terrace
- 5, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 6, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 7, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 8, 4 p.m. Tour of Uris Library — begins in lobby
- 8, 6:30 p.m. Architecture of Cornell: a walking tour — begins at southwest archway entrance to Balch Halls
- 8, 8:15 p.m. Concert: fortepiano, Malcolm Bilson, professor of piano — Statler Hall auditorium
- 9, noon Shakespeare lunch lecture: "Shakespeare and Costumes," Rachel Ehrlich, lecturer, and Anthony F. Cronin, director, Cornell Summer Shakespeare Festival — A.D. White House garden
- 9, 7 p.m. Outdoor concert: "Le Cabaret," Paul Robeson Performing Arts Company, cosponsored by COSEP Freshman Summer Program — Arts Quad
- 10, 8:15 p.m. Lecture: "The Myth of Mental Illness: The Differences between Coping with Life and Curing Disease," Thomas S. Szasz, M.D., professor of psychiatry, Upstate Medical Center (Syracuse) — Statler Hall auditorium
- 11, noon, Brown-bag lunch lecture: "Design Your Life: A Psychological Look at Personal Growth," Edward R. Ostrander, associate professor of design and environmental analysis — G94 Uris Hall
- 11, 4 p.m. Tour of Robison York State Herb Garden, Raylene Gardner, Cornell Plantations education coordinator — Cornell Plantations headquarters building
- 11, 7 p.m. Outdoor concert: Bristol Mountain Bluegrass — Arts Quad
- 11, 8 p.m. Concert: Richard Boukas, jazz guitarist — Barnes Hall
- 11, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard
- 12, 5 p.m. Terrace concert, sponsored by Willard Straight Hall — Straight Terrace
- 12, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard
- 13, noon-6 p.m. Festival of Traditional Jazz: Carol Leigh, Dick Wellstood, Jack Mahue, Marty Groz, the Tarnished Six, Bourbon Street Parade, Charlie Mussen's I Love Jazz Band, Peggy Haine and the Lowdown Alligator Jass Band — Arts Quad
- 13, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 14, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard
- 15, 4 p.m. Tour of Uris Library — begins in lobby
- 15, 6:30 p.m. Architecture of Cornell: a walking tour — begins at southwest archway entrance to Balch Halls
- 15, 8:15 p.m. Concert: Music by Johann Sebastian Bach, Donald R.M. Paterson, associate professor of music, University organist, and Sage Chapel choirmaster — Sage Chapel
- 16, noon Shakespeare lunch lecture: "Shakespeare's Stage," Rachel Ehrlich, lecturer, and guest speaker — A.D. White House garden

- 16, 7 p.m. Outdoor concert: Southern Tears (country-western band) — Arts Quad
- 17, noon Tour of Willard Straight Hall Rock Garden, Robert G. Mower, professor of floriculture and ornamental horticulture — rock garden between Willard Straight Hall and Gannett Health Center
- 17, 8:15 Lecture: "Our Chemical Society and Being Human," Robert Barker, University provost — Statler Hall auditorium
- 18, noon Brown-bag lunch lecture: "How Supercomputers Affect Scientific Thinking," Charles Van Loan, associate professor and director of graduate studies in computer science — G94 Uris Hall
- 18, 4 p.m. Tour of Robison York State Herb Garden, Raylene Gardner, Cornell Plantations education coordinator — Cornell Plantations headquarters building
- 18, 7 p.m. Outdoor concert: Cranberry Lake Jug Band — Arts Quad
- 18, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard
- 19, 5 p.m. Terrace concert, sponsored by Willard Straight Hall — Straight Terrace
- 19, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 20, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard
- 21, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 22, 1 p.m. Medical Outreach: "Vanishing Periods (Amenorrhoea)," Julianne L. Imperato-McGinley, M.D. — 101 Bradfield Hall
- 22, 1:45 p.m. Medical Outreach: "Brittle Bones — How to Prevent Osteoporosis," Lila A. Wallis, M.D. — 101 Bradfield Hall
- 22, 4 p.m. Tour of Uris Library — begins in lobby
- 22, 6:30 p.m. Architecture of Cornell: a walking tour — begins at southwest archway entrance to Balch Halls
- 22, 8:15 p.m. Concert: Jeffrey Chappell, pianist, in recital — Statler Hall auditorium
- 23, noon Shakespeare lunch lecture: "The Language of Shakespeare," Rachel Ehrlich, lecturer, and guest speaker — A.D. White House garden
- 23, 1 p.m. Medical Outreach: "Prevention of Heart Disease," Stephen S. Scheidt, M.D. — 101 Bradfield Hall
- 23, 1:45 p.m. Medical Outreach: "New Technology in Management of Heart Disease," Jeffrey S. Borer, M.D. — 101 Bradfield Hall
- 23, 7 p.m. Outdoor concert: "Traditional Jazz Gone Slightly Berserk," Peggy Haines and the Lowdown Alligator Jass Band — Arts Quad
- 24, 1 p.m. Medical Outreach: "What You Should Know about Hemophilias," Margaret W. Hilgartner, M.D. — 101 Bradfield Hall
- 24, 1:45 p.m. Medical Outreach: "What You Should Know about Breast Cancer," Richard T. Silver, M.D. — 101 Bradfield Hall
- 24, 8:15 p.m. Lecture: "Civil Rights: Where Do We Go from Here?" Clarence M. Pendleton, Jr., chairman, United States Commission on Civil Rights — Statler Hall auditorium
- 25, noon Brown-bag lunch lecture: "Dreams and Realities: Women's Rights in 1985," Jennie T. Farley, associate professor of industrial and labor relations — G94 Uris Hall
- 25, 1 p.m. Medical Outreach: "What You Should about AIDS," Barry J. Hartman, M.D. — 101 Bradfield Hall
- 25, 1:45 p.m. Medical Outreach: "Breathing Air — Automatic But Not Simple," James P. Smith, M.D. — 101 Bradfield Hall
- 25, 7 p.m. Revue: "Play on Plays on Plays..." Robert T. Farrell, professor of archaeology, of medieval studies, and of English; William Cowdry; David Keller; and Joan Jeffri — Kaufmann Auditorium, Goldwin Smith Hall
- 25, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 26, 1 p.m. Medical Outreach: "How to Keep Your Blood Pressure Down," John Nicholson, M.D. — 101 Bradfield Hall
- 26, 1:45 p.m. Medical Outreach: "Painful Joints and Modern Drugs," Joseph A. Markenson, M.D. — 101 Bradfield Hall
- 26, 5 p.m. Terrace concert, sponsored by Willard Straight Hall — Straight Terrace
- 26, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 27, 5 p.m. Outdoor concert: The Burns Sisters, Urban Blight — Libe Slope
- 27, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 28, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard
- 29, 4 p.m. Tour of Uris Library — begins in Lobby
- 29, 6:30 p.m. Architecture of Cornell: a walking tour — begins at southwest archway entrance to Balch Halls
- 29, 8:15 p.m. Concert: Oliver Steiner, violin, and Joseph Werner, piano — Statler auditorium
- 30, noon Shakespeare lunch lecture: "Acting Shakespeare," Rachel Ehrlich, lecturer, and guest speaker — A.D. White House garden
- 30, 7 p.m. Outdoor concert: Nick Seeger (country music) — Arts Quad
- 31, noonTour of A.D. White House garden, Robert G. Mower, professor of floriculture and ornamental horticulture — garden at rear of A.D. White House
- 31, 8:15 p.m. Lecture: "Realities of Representative Government," former congressman Barber B. Conable, Jr. — Statler Hall auditorium

August

- 1, noon Brown-bag lunch lecture: "Career Is a Word That Never Should Have Been Invented," John L. Munschauer, director emeritus, Career Center — G94 Uris Hall
- 1, 4 p.m. Tour of Robison York State Herb Garden, Raylene Gardner, Cornell Plantations education coordinator — Cornell Plantations headquarters building
- 1, 7 p.m. Outdoor concert: Dady Brothers (bluegrass and Irish folk music) — Arts Quad
- 1, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard
- 2, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 3, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard
- 4, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 5, 4 p.m. Tour of Uris Library — begins in lobby
- 6, noon Shakespeare lunch lecture: "Producing a Shakespearean Play," Rachel Ehrlich, lecturer, and guest speaker — A.D. White House garden
- 6, 7 p.m. Outdoor concert: "Horseflies at Sunset," (the Horseflies old-time string band) — Arts Quad
- 8, noon Brown-bag lunch lecture: "Behavior Problems of Cats, Dogs, and Their Owners," Katherine A. Houpt, D.V.M., associate professor veterinary physiology — G94 Uris Hall
- 8, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 9, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard
- 10, 8:30 p.m. Shakespeare Festival: *Macbeth* — Anabel Taylor Hall courtyard
- 11, 8:30 p.m. Shakespeare Festival: *As You Like It* — Anabel Taylor Hall courtyard

Cornell University

University Personnel Services

Day Hall

Ithaca, New York 14853

607/256-8226

Please Note:

Job Opportunities is a publication of Staffing Services and is distributed each Thursday through the Cornell Chronicle. Job Opportunities lists current vacancies within the University, consistent with the University's commitment to promotion from within, affirmative action, and equal opportunity employment.

Applications for employment are available at Cornell University's employment office at East Hill Plaza at the intersection of Ellis Hollow Road and Judd Falls Road in Ithaca, from 9:00 a.m. to 12:00 noon, Monday through Friday. Applications can be submitted through the mail to University Personnel Services, Staffing Services, 160 Day Hall, Ithaca,

N.Y. 14853. For more information on jobs listed, contact Staffing Services (607) 256-5226.

Employee Transfer Applications: Employees who wish to transfer to other jobs within the University should complete a separate Employee Transfer Application form for each position and submit them to Staffing Services. Individuals with official University layoff status will be given preference in referrals.

This listing is also available on CUINFO

Cornell University's computerized information service. For further CUINFO details, contact the Information and Referral Center at 256-6200 or Computer Services.

New vacancies are listed for two weeks in Job Opportunities.

*Asterisks identify jobs that were not listed last week.

Full-time jobs are 39 hours per week unless otherwise indicated. Jobs listed as SO, U1 and U2 are represented by bargaining units.

monitor budget; hire and supervise personnel; control and monitor inventory.

Requirements: Bachelor's degree or equivalent in hotel administration. At least five years related experience in hotel management, formal training preferred. Proven supervisory ability and strong communication skills. Please send cover letter and resume to Ralph D. Jones by June 27, 1985.

Job Number: PA237

Position: Associate Director, Admissions
Department: University Admissions Office
Description: Responsible for upstate New York recruiting program, coordination with University's seven undergraduate divisions on regional recruiting strategies and support the development and enhancement of recruitment publications and audiovisual materials.

Requirements: Bachelor's degree and a minimum of four years of experience in progressively responsible positions in admissions required. Market research based approach to planning, recruitment activities and excellent quantitative, organizational and communications skills strongly preferred. Please send cover letter and resume to Ralph D. Jones by June 27, 1985.

Job Number: PA235

Position: Assistant Director, Equal Opportunity
Department: Office of Equal Opportunity
Description: Develop programs and techniques which address current affirmative action—equal opportunity issues. Prepare long range strategies to enhance the University's affirmative action—equal opportunity efforts. Assist the Director in all phases of the University's affirmative action process.

Requirements: Bachelor's degree or equivalent. Significant experience with affirmative action—equal opportunity guidelines and regulations, or human resources management with AA—EO emphasis. Ability to analyze statistical data. Effective written and oral communication skills. Experience in computer applications, training, and fiscal management highly desirable. Strong interpersonal skills and demonstrated competency in working under pressure. Please send cover letter and resume to Ralph D. Jones by June 27, 1985.

Job Number: PA239

Position: Technical Consultant III
Department: Computer Services
Description: Assist faculty in developing instructional software and documentation for use with microcomputers; act as a source of technical information about IBM personal computers and software; supervise the hiring and work of student programmers.

Requirements: Bachelor's degree or equivalent with coursework in computing or related field. Three to five years experience in computing; at least two years experience programming microcomputers. In-depth knowledge of design and programming concepts. Fluency in at least two programming languages, preferably Pascal, C, Fortran or Macro assembly. Awareness of microcomputers data base, spread sheets and word processing programs. Good oral—written communication skills. Previous supervisory experience. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT236

Position: Research Support Specialist III
Department: Agricultural Economics
Description: Assist in the coordination and conduct of systems analysis research to develop integrated management procedures for potato pests. Work in cooperation with interdisciplinary team of agricultural scientists to optimize potato pest management strategies.

Requirements: Master's degree or equivalent in agricultural economics, agricultural engineering, entomology, plant pathology, vegetable crops or related field. Course work or experience in systems analysis of agriculture systems and knowledge of crop production and pest management useful. Computer programming and mathematical modeling skills essential. Excellent communication (written and oral) and interpersonal skills. Please send cover letter and resume to Cynthia Smithbower.

Minimum Starting Salary: \$18,000
Job Number: PT2314

Position: Research Support Specialist II
Department: Pharmacology
Description: Use of specialized perfusion apparatus; provide technological support for research programs; training of staff; design and plan experiments; administration of research lab; maintain all records for lab such as radioisotope, animal, inventory, and supplies.

Requirements: Bachelor's degree or equivalent education and experience. Two years experience in lab and research procedures. Experience with specialized perfusion apparatus. Please send cover

Continued on Page 6

Job Opportunities

Cornell University is an equal opportunity, affirmative action employer.

Holiday Deadline for Requisitions.

Due to the July 4 holiday, the deadline for receiving requisitions for the July 11 issue of "Job Opportunities" will be Wednesday, July 3, rather than Thursday, July 4.

Administrative/Professional

The minimum salaries listed are for recruitment purposes only.

***Position:** Student Development Specialist
Department: Johnson Graduate School of Management

Description: Manage and administer an integrated program of activities and services designed to assist both current students and alumni in career planning and the search process. Specific responsibilities include administration of on-campus recruiting activities, student advising, representing the School with current and prospective employers of graduates, and supervising an Assistant Director and two support staff.

Requirements: Bachelor's degree in related field required; graduate degree preferred. Experience in career planning, placement or recruitment is essential, with preference given to such experience in a corporate setting. Please send cover letter and resume to Ralph D. Jones by July 5, 1985.

Job Number: PA248

***Position:** Personnel Associate II
Department: Finance and Business Office
Description: Provide administrative services and counseling to Statutory College and Cooperative Extension personnel in the areas of select benefits, health insurance and retirement including tax deferred options.

Requirements: Bachelor's degree in personnel administration or a related field and significant experience in benefit administration required. Familiarity with computers, good interpersonal and communication skills are highly desired. Please send cover letter and resume to Ralph D. Jones by July 5, 1985.

Job Number: PA245

***Position:** Senior Research Support Specialist
Department: Equine Drug Testing & Research
Description: Plan, conduct and report original research in cooperation with the Director in the field of Equine Exercise Physiology and Pharmacology, utilizing techniques such as electrocardiography, physiological recording equipment, telemetry, special biochemical and routine lab testing. Field investigations & epidemiological surveys will be conducted throughout New York state. General supervision of departmental technical staff.

Requirements: New York State licensed Doctor of Veterinary Medicine; PhD or Master's in pharmacology or analytical chemistry. Evidence of research ability as indicated by job experience and/or publication in the field. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT244

***Position:** Assistant Superintendent
Department: Grounds
Description: Assist the Superintendent in the management of campus landscape maintenance operations to include: care of grounds, sidewalks, roadways, heavy equipment fleet, snow removal, and excavation for outdoor construction.

Requirements: Bachelor's degree or equivalent

in ornamental horticulture, landscape management, landscape architecture, agronomy, or related field. Pesticide Applicators License desirable or required within six months. Knowledge of woody plant material care, ornamental plant pest control experience, maintenance of pavements, snow—ice control techniques. Strong leadership, interpersonal, and communication—writing skills. Please send cover letter and resume to Ralph D. Jones by July 5, 1985.

Job Number: PA243

***Position:** Research Support Specialist II
Department: Animal Science - Canton, NY
Description: Supervise the Animal Science Applied Research and Demonstration Project conducted at the Agriculture and Technical College, Canton, NY. Will also conduct some classroom teaching in the animal husbandry area.

Requirements: Bachelor's degree in animal or dairy science; Master's degree in animal or dairy science preferred. Supervisory and project administration skills; familiarity with dairy herd management practices, use of microcomputers. Good interpersonal skills. Please send cover letter and resume to Cynthia Smithbower.

Minimum Starting Salary: \$15,000
Job Number: PT242

***Position:** Development Assistant
Department: University Development
Description: Assist with the management, coordination and implementation of fund raising initiatives. Coordinate special projects, assist with campus hospitality, provide back up assistance for preparation of briefings and other written materials. Assist in recording and acknowledgment of gifts.

Requirements: Bachelor's degree or equivalent in work experience. Excellent written and oral communication skills. Strong interpersonal skills. Management and organizational ability desired. Please send cover letter and resume to Ralph D. Jones by July 5, 1985.

Job Number: PA247

***Position:** Development Assistant
Department: University Development
Description: Assist in the planning and implementation of the University's annual campaign and provide assistance with major reunion campaigns. Design and implement fund raising programs within the Cornell Fund. Enlist and work with alumni and student volunteer leaders. Coordinate all Cornell Fund special events and meetings.

Requirements: Bachelor's degree or equivalent. Excellent communication and interpersonal skills. Some prior knowledge of fund raising through professional or volunteer experience. Ability to communicate with a diverse alumni and student body. Knowledge of Cornell desirable. Please send cover letter and resume to Ralph D. Jones by July 5, 1985.

Job Number: PA246

***Position:** Student Development Specialist II
Department: Office of Instruction, College of Agriculture and Life Sciences
Description: Perform all admissions activities, including recruitment, evaluation of applications, interviewing and advising prospective students, and making admission decisions. Prepare publications, displays, and videotape materials. Travel to high schools and community colleges. Develop plans and materials for hosting programs.

Requirements: Master's degree or equivalent combination of Bachelor's degree with training and experience in public relations, academic processes, and counseling. Training or experience in the development of videotaping, displays, and publications helpful. Strong interpersonal and communication skills. Ability to maintain confidentiality, make independent decisions, organize events and projects, and make public presentations. Please send cover letter and resume to Ralph D. Jones by July 5, 1985.

Job Number: PA249

Position: University Auditor
Department: Vice President & Treasurer
Description: Plan, direct and conduct audit of all University activities. Determine adequacy of accounting, financial, and operating systems and controls; coordinate internal audits with external auditors.

Requirements: Bachelor's degree in accounting or related business field required; CPA—MBA highly desirable. Minimum of 7-10 years experience in financial and operational auditing within a highly computerized environment. Substantial supervisory experience; strong management and communication skills required. Please send cover letter and resume to Patricia E. Hutton.

Job Number: P2315

Position: Assistant Financial Director
Department: C.U. Press
Description: Oversee accounting, budgeting systems and distribution services for CU Press; work with STC—S PUBS DATA system in preparation of management reports and analysis; assist in preparation of proposals and reports for distribution clients and implementation of distribution agreements.

Requirements: Bachelor's degree in accounting. Minimum three years work experience, preferably in publishing field. Knowledge of computer systems. Please send cover letter and resume to Ralph D. Jones by June 27, 1985.

Job Number: PA238

Position: Director of Lab Operations
Department: Equine Drug Testing & Research - NYC area (off-campus)
Description: Operate a field drug testing laboratory to cover Aqueduct, Belmont and Saratoga Racetracks. Requires relocation to Saratoga Springs, NY for month of August each year. Supervise and train five technicians. Responsible for the analysis of blood and urine samples.

Requirements: Bachelor's degree or above in chemistry or biochemistry. Extensive experience in isolation, purification and identification of drugs and drug metabolites. Operation of analytical instrumentation including Gas Chromatography—Mass Spectrometry, Gas Chromatography and Thin Layer Chromatography. Supervisory experience required. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT232

Position: Director of Inn Operations
Department: Statler Inn
Description: Reports to the General Manager with functional responsibility for food and beverage operations, front office, guest services, receiving and stewarding for the Statler Inn. Provide managerial support for banquets, restaurant and beverage operations and office and guest services; establish operating standards; insure quality service to patrons; coordinate with department heads;

Job Opportunities

Continued from Page 5

letter and resume to Cynthia Smithbower.

Job Number: PT234

Position: Applications Programmer—Analyst I
Department: Computer Services (APS)

Description: Work as a member of a project team to install and maintain batch and interactive programs of an overall administrative system. Write production procedures and JCL. Interface with production control clerks.

Requirements: Bachelor's degree or equivalent with computer related courses. A knowledge of applications for interactive administrative systems and data base concepts desirable. Some experience with machine architecture, programming languages (such as PL—1, NATURAL, COBOL, MARK IV) and system utility programs necessary. Please send cover letter and resume to Cynthia Smithbower by June 28, 1985.

Minimum Starting Salary: \$16,500

Job Number: PT2311

Position: Senior Administrator II

Department: Lab of Nuclear Studies

Description: Responsible for the operation of High Energy Research Facility; serve as interface between the Laboratory and the University and external agencies for all business related matters. Operating budget of \$12 million with 200 employees.

Requirements: Advanced professional degree desirable. Management experience with technical background in engineering, physics or related field required. Candidate should demonstrate competence in personnel and budget management. Please send cover letter and resume to Ralph D. Jones by June 20, 1985.

Job Number: PA224

Position: Technical Consultant III

Department: Computer Services: Academic Computing

Description: Provide teaching and consulting support on the use of Cornell's microcomputers; write and document programs that facilitate the use of these systems. Evaluate software for academic applications. Prepare user documentation. Assist in setting computing policy.

Requirements: Bachelor's degree or equivalent, with coursework in computer-related fields. Three to five years computer systems and/or programming experience. Exceptional communications skills for teaching, consulting, and writing. Demonstrated proficiency using microcomputers; expert knowledge of programming languages, operating systems, and software packages that are relevant to academic applications. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT226

Position: Project Manager

Department: School of Hotel Administration—Statler Inn

Description: Reporting to the Director of Business and Administration, will be responsible for the overall planning, scheduling and supervision of computer operations. Will initiate, develop and implement numerous School and Inn projects while directing an Analyst—Programmer and support staff.

Requirements: Bachelor's degree with computer-related courses; several years project management and systems analysis experience. Must be familiar with several high level languages such as COBOL. Experience with IBM or WANG VS equipment preferred. Some experience with accounting systems preferred. Please send cover letter and resume to Cynthia Smithbower by July 3, 1985.

Job Number: PT132

Position: Senior Photographic Specialist

Department: Publications - Geneva (Off-Campus)

Description: Assignments in graphic arts photography, scientific-industrial photography, public information photography, exhibit photography, and design. Other duties as required.

Requirements: Bachelor's degree or equivalent in photographic technology. Three years experience preferred. Versed in offset camera operations and other laboratory work. Good interpersonal skills desirable. Please send cover letter and resume to J. Courtney Fletcher.

Minimum Starting Salary: \$16,895

Job Number: PS14

Position: Health Associate I

Department: University Health Services

Description: Using health associate physician approved guidelines, provide primary health care to university students, faculty and staff members. Emphasis is placed on continuity of care, health

education, health maintenance and preventive care.

Requirements: New York State RN—PA license and a graduate of an accredited RN—PA program required. Experience and professional certification preferred. Please send cover letter and resume to Ralph D. Jones by June 30, 1985.

Job Number: PA191

Clerical

All applicants interested in positions requiring typing must take an official University test. Tests are given on Monday and Wednesday at 8:00 A.M. in Room 337, Statler Hall. Please contact Staffing Services for an appointment.

Position: Accounts Coordinator, GR24

Department: Restricted Fund Accounting

Description: Monitor financial activity of restricted accounts. Prepare and submit billings to sponsors, monitor receivables. Correspond with sponsors and Cornell community. Support accounting system to auditors.

Requirements: Bachelor's degree in accounting, business or related field preferred. Strong accounting background required. Familiarity with University accounting system preferred.

Minimum Starting Salary: \$14,779

Job Number: 2418

Position: Administrative Aide, GR21

Department: Agricultural Economics

Description: Provide a wide range of support to the department chairperson which includes computer and management information system, administrative and secretarial assistance.

Requirements: Associate's degree or equivalent; Bachelor's degree or equivalent desirable. Medium typing. Previous experience and training in computer programming or data processing. Strong writing, editing skills. Excellent organizational and interpersonal skills. Ability to work independently. Handle confidential material. Experience with microcomputers and a variety of computer software including data base management package, networking and communications software, word processing and spreadsheet packages, graphics, administrative packages. Please send cover letter and resume to Esther L. Smith by June 28, 1985.

Minimum Starting Salary: \$12,469

Job Number: C241

*Position: Administrative Aide, GR21

Department: Program on Science, Technology & Society

Description: Provide administrative and organizational support to two complex multidisciplinary, multi-college programs. Prepare reports and newsletters; set up and maintain computerized student records and help establish monitoring procedures; answer correspondence and inquiries; plan and execute mailings; assist in organizing meetings, symposia, and conferences and provide reports.

Requirements: Associate's degree or equivalent. Medium typing. Ability to work independently. Excellent organizational, interpersonal and communication skills, writing and editing skills. Knowledge of syntax, grammar, etc. Ability to organize and keep confidential records. Knowledge of word processors and personal computer operation. Science knowledge helpful.

Minimum Starting Salary: \$11,739

Job Number: C244

*Position: Administrative Aide, GR20

Department: Physics

Description: Provide administrative and secretarial support to department chairman and manager. Prepare appointment forms and payroll vouchers. Maintain student, faculty and staff records. Organize department and grad student activities. Extensive contact with students, faculty and public. Word processing and records processing.

Requirements: High school diploma or equivalent. Heavy typing. Business or secretarial school desired. At least three years related experience. Familiarity with academic environment and programs necessary -- knowledge of Cornell particularly helpful. Strong organizational and interpersonal skills; ability to handle large volume of detail essential. Word processing helpful.

Minimum Starting Salary: \$11,739

Job Number: C2411

*Position: Accounts Coordinator, GR20

Department: Statler Inn

Description: Direct, control and coordinate accounts payable for Statler Inn, Club, Auditorium, and the School of Hotel Administration. Oversee maintenance and billing of 2,700 accounts and

processing of invoices for the Inn and the SHA. Supervise the accounts payable clerks and accounts receivable manager.

Requirements: High school diploma or equivalent. Medium typing. Three to five years experience in accounting; familiarity with the Cornell accounting system. Ability to operate office machines and computers; strong organizational, communication and office skills.

Minimum Starting Salary: \$11,739

Job Number: C2414

*Position: Administrative Aide, GR19

Department: Law School Public Affairs & Development Office

Description: Provide secretarial and administrative support to two Public Affairs Assistants working with the Law School's annual fund and capital campaign. Coordinate production and mailing of materials for direct mail and phonathon programs. Maintain development Office database. prepare regular and special gift reports for volunteers. Assist in planning Law School fund raising events. handle correspondence; file; answer telephones for two Public Affairs Assistants.

Requirements: High school diploma or equivalent required with some business courses or college preferred. Heavy typing. minimum of two years experience in responsible secretarial position. Familiarity with computers and word processing necessary. Must be able to work independently, maintain confidentiality and be extremely attentive to detail.

Minimum Starting Salary: \$11,125

Job Number: C2417

*Position: Secretary, GR19

Department: Computer Science

Description: Provide secretarial support for the department chairman. Type correspondence—technical reports using department computer (original entry and editing). Coordinate faculty recruiting; screen all inquiries for chairman, by appointment or telephone. Provide clerical support to Administrative Manager.

Requirements: High school diploma or equivalent. Heavy typing. Formal coursework in business and/or secretarial skills preferred. Experience in university or college environment preferred. Good receptionist and telephone skills. Strong communication (written) skills. Technical typing and word processing helpful.

Minimum Starting Salary: \$11,125

Job Number: C245

*Position: Word Processing Operator, GR19

Department: Animal Science

Description: Assist Administrative Aide in providing secretarial support to 14 professional staff. Word processing (IBM Displaywriter); answer telephone; act as receptionist; file; order supplies; other duties as assigned.

Requirements: High school diploma or equivalent. Medium typing. Some related secretarial and office experience helpful, word processing experience desirable.

Minimum Starting Salary: \$11,125

Job Number: C247

*Position: Travel Coordinator, GR19

Department: Travel Office

Description: Provide staff, faculty and administration with economical international and domestic travel plans; reserve airline, train, car and hotel accommodations.

Requirements: Commercial travel agent with one to three years experience, knowledge of Sabre computer, ticketing, phase IV and prepaids. Ability to work under pressure and with the public essential. Light typing.

Minimum Starting Salary: \$11,125

Job Number: C246

*Position: Secretary, GR19

Department: Systems Office—Olin Library

Description: Under direction of Automation Planning Project Director provides secretarial support; prepare correspondence, minutes, and other documents on a word processor; maintenance of files; schedule appointments and travel arrangements; act as receptionist for project staff; other duties as assigned.

Requirements: Associate's degree or equivalent. Medium typing. One to three years secretarial experience; knowledge of word processor; strong communication (written and oral) and organizational skills; library experience desirable.

Minimum Starting Salary: \$11,125

Job Number: C2419

*Position: Secretary, GR18

Department: Field Study Office Human Ecology

Description: Organize work; meet deadlines; communicate with students, community members

and faculty. Coordinate Field Transportation for faculty and students. Act as receptionist. Other duties as assigned.

Requirements: High school diploma or equivalent; business or secretarial school preferred. Heavy typing. One to two years of secretarial experience required.

Minimum Starting Salary: \$10,500

Job Number: C2416

*Position: Office Assistant, GR18

Department: Dean's Office, Arts & Sciences
Description: Act as receptionist for Records and Scheduling Office. Handle paperwork for student who transfer internally or enter Dual Degree Program. Use word processor and computer terminal. Assist registrar with scheduling, add—drop, typing directions, making registration packets. Assist with graduation and other office functions.

Requirements: High school diploma or equivalent. At least one year liberal arts college background preferred. Light typing. Strong interpersonal and organizational skills required. Ability to work under pressure. Experience in use of word processor helpful.

Minimum Starting Salary: \$10,500

Job Number: C2413

*Position: Accounts Assistant, GR18

Department: Bursar

Description: Research delinquent student accounts and student loans; 'skip trace' bad addresses; correct errors in student accounts; answer written correspondence and oral communication with debtors; handle preparation and diagnosis of normal day to day reports for the collection operation; update information on the personal computer. Other duties as assigned.

Requirements: High school diploma or equivalent. Business school desirable. Medium typing. Knowledge of personal computer desirable. Previous office experience. Ability to work independently. Excellent organizational, interpersonal and communication skills.

Minimum Starting Salary: \$10,500

Job Number: C243

*Position: Accounts Assistant, GR17

Department: Statler Inn

Description: Under general supervision enter member and department charges on WANG computer. Serve as office secretary, including processing correspondence and telephone inquiries. Requirements: High school diploma or equivalent. Medium typing. Two to three years related experience, familiarity with computers required, preferably with WANG word processing and LCTUS 1-2-3.

Minimum Starting Salary: \$9,967

Job Number: C2415

Position: Administrative Aide, GR21

Department: Computer Science

Description: Provide administrative assistance to the teaching faculty in the execution of introductory computer science courses. Advise on procedures for upper level courses. Supervise the staff (both clerical and student) in the preparation and execution of these courses. Act as liaison between teaching staff and students.

Requirements: Associate's degree or equivalent. Light typing. Substantial experience in a university environment desirable. CS100 equivalent coursework. Minimum two to three years administrative—secretarial experience. Knowledge of computer science course content. Understanding of SAS2 packages and CMS commands. Knowledge of CS100 computer programming. Demonstrated supervisory skills and experience. Familiarity with technical typing. Excellent organizational and interpersonal skills. Ability to set priorities and to work in a complex active environment. Please send cover letter and resume to Esther L. Smith by June 21, 1985.

Minimum Starting Salary: \$12,469

Job Number: C239

Position: LC Cataloger, GR20

Department: Catalog—Olin Library

Description: Catalog monographs with LC copy on Germanic—Slavic team utilizing RLLIN system with some proficiency catalog with RLG member library copy; authority work; shelf list; add volumes; data base maintenance activities. Other catalog duties as assigned.

Requirements: Bachelor's degree or equivalent. Light typing. Minimum one year previous work in libraries, preferably technical services. Ability to perform detailed work with accuracy. Excellent knowledge of German. Knowledge of Scandinavian languages desirable.

Minimum Starting Salary: \$11,739

Job Number: C232

Position: LC Cataloger, GR20

Department: Catalog—Olin Library

Description: Catalog monographs with LC copy on Social Sciences Team utilizing RLIN system; with some proficiency catalog with RLG member library copy; authority work; shelf list; process added volumes; data base maintenance activities. Other catalog duties as assigned.

Requirements: Bachelor's degree or equivalent experience or training. Light typing. Minimum one year previous work experience in library, preferably technical services. Ability to perform detailed work with speed and accuracy. Foreign language competence, especially German or Spanish.
Minimum Starting Salary: \$11,739
Job Number: C231

Position: Secretary, GR19 (Repost)
Department: Career Center - Sage Hall
Description: Provide secretarial support for Special Programs (such as Career Fair), on-campus recruiting, registration, etc. Arrange staff meetings and seminars-workshops; compile and prepare office statistics; general word processing of correspondence and reports. Other duties as assigned.

Requirements: High school diploma or equivalent. Business or secretarial school desirable. Heavy typing. Word processing skills desirable. Previous work experience in a fast-paced office. Strong organizational, interpersonal and communication (written and oral) skills. Ability to work under pressure and with minimal supervision.
Minimum Starting Salary: \$11,125
Job Number: C2014

Position: Night Supervisor, GR18
Department: Law Library
Description: Supervise Circulation—Reserve activity; provide limited reference service in the absence of regular reference staff; responsible for building security and library policy enforcement at night; supervise and train student assistants; assist with collection maintenance and looseleaf filing; charge and discharge materials; deal with photocopier and other machine problems. Nine month appointment. Sunday - Thursday, 2:00 p.m. - 11:00 p.m.

Requirements: Associate's degree or equivalent. Light typing. Some library experience preferred. Strong organizational, communication and interpersonal skills.
Minimum Starting Salary: \$10,500
Job Number: C235

Position: Secretary, GR18
Department: Office of Equal Opportunity
Description: Provide secretarial and receptionist support. Type correspondence, reports, statistical information; process mail; operate copy machines; coordinate applicant flow materials and file; send out pre-employment data cards and reports; do payroll for workstudy students.

Requirements: High school diploma or equivalent. Business or secretarial school desirable. Medium typing. Some secretarial experience. Strong organizational, interpersonal and telephone skills. Extensive experience with WANG computer. Knowledge of Cornell procedures helpful.
Minimum Starting Salary: \$10,500
Job Number: C2310

Position: Senior Circulation—Reserve Assistant, GR18
Department: Law Library
Description: Responsible for daily operations of Circulation Desk; train student assistants; open Law Library five days per week; file looseleaf services; charge and discharge materials; assist in handling of reserve materials and reference questions. Other duties as assigned.

Requirements: Associate's degree or equivalent. Light typing. Some library experience preferred but not essential. Strong organizational, communication and interpersonal skills.
Minimum Starting Salary: \$10,500
Job Number: C238

Position: Office Assistant, GR17
Department: Veterinary Administration
Description: Answer and route all incoming calls for approximately 900 employees at the College of Veterinary Medicine.

Requirements: High school diploma or equivalent. Light typing. Switchboard operator experience and knowledge of computerized telephone console system. Knowledge of medical terminology. Familiarity with computer terminals. Excellent telephone etiquette and an ability to work under pressure in an environment which includes a teaching hospital.
Minimum Starting Salary: \$9,967
Job Number: C233

Position: Office Assistant, GR16
Department: University Health Services
Description: Provide receptionist—clerical support; answer phones; schedule appointments; pull medical charts; file. Other duties as assigned. Full

time, regular position. Monday -Friday 8:30 a.m. - 5:00 p.m., every 5th Saturday 8:30 a.m. -12:30 p.m.

Requirements: High school diploma or equivalent. Good general office skills. Strong communication and interpersonal skills. Experience working in medical office preferred.
Minimum Starting Salary: \$9,494
Job Number: C237

Position: Accounts Coordinator, GR22
Department: CALS Office for Research
Description: Manage the Office for Research and Agricultural Experiment Station college, state, and federal allocation and operating accounts. Manage accounts databases and produce financial reports. Analyze accounts data for trends, projections, etc. Provide support to the Grants and Contracts Coordinator and Office Supervisor as necessary.

Requirements: Associate's degree or equivalent. Medium typing. Thorough understanding of the Cornell accounting—budgeting system. Good facility with LOTUS 1-2-3. Familiarity with computerized accounting systems. Minimum of two to three years related experience required.
Minimum Starting Salary: \$13,141
Job Number: C229

General Service

*Position: Shift & Maintenance Mechanic, SO23
Department: Maintenance & Service Operations
Description: Maintain and troubleshoot steam, hot water, and glycol heating systems. Work on ventilation and air conditioning systems; electrical and other mechanical systems as applied to industrial, educational, research and commercial buildings. Days and hours will vary according to shift duty.

Requirements: High school diploma or equivalent. Considerable experience in building trades. Ability to read blue prints; climbing and working from ladders. New York State driver's license required.
Minimum Starting Salary: \$6.61—hour
Job Number: S242

*Position: Nutrition Aide, GR17
Department: Cooperative Extension Program, New York City
Description: Work with low income families and children to acquire knowledge and skills for improving the nutritional quality of their diets. Teach parents and youths essentials of nutrition and increase their knowledge and skills in selecting and using food. A three-week training program is required.

Requirements: High school diploma or equivalent required.
Minimum Starting Salary: \$9,967
Job Number: S241

*Position: Nurse Aide, SO17
Department: University Health Services
Description: Clean and stock examining rooms and prepare solutions. Assist clinicians and nurses. Prepare patient for medical examinations. Ability to work independently in emergency cases. Nine month appointment. Rotating shifts: 8:00 a.m. -4:30 p.m., and evening shift, 4:00 p.m. - 12:30 a.m.; 5 days—week.

Requirements: High school diploma or equivalent. Nurse Aide—Health Assistant certificate desirable. Some recent experience in a health related service or educational experience in the health field. Strong interpersonal and communication skills.
Minimum Starting Salary: \$4.69—hour
Job Number: S244

*Position: Head Waitperson, SO16
Department: Statler Inn
Description: Under general supervision, assist in supervising students, coordinate room—table set-up for banquet and other hospitality functions. Monday - Friday, 7:00 - 2:30; some weekends.
Requirements: High school diploma or equivalent. One year related experience; excellent interpersonal skills.
Minimum Starting Salary: \$4.47—hour
Job Number: S245

Technical

Outside applicants for technical positions should submit an employment application, resume, transcripts and a list of laboratory techniques and equipment or computer languages and hardware with which you are familiar. This information will be kept active for six months. For each position you are qualified and wish to be a candidate for, submit a cover letter including position title, de-

partment and job number, to Cynthia Smithbower. Current Cornell employees should submit an employee transfer application, resume and cover letter. Outside applicants with training and/or experience in the following areas are encouraged to apply: biochemistry, chemistry, microbiology, electronics, physics and licensed animal health technician.

*Position: Computer Operator, GR22
Department: Computer Services - Academic Computing
Description: As lead computer operator at a campus terminal facility, answer general consulting questions, help users access departmental computer systems, assist in training new staff and help develop new policies and procedures.

Requirements: Associate's degree or equivalent in data processing. One year previous computer operator experience, preferably at Cornell; working knowledge of Cornell's computer systems. Strong oral communication, interpersonal and organizational skills. Knowledge of IBM and Apple microcomputers.
Minimum Starting Salary: \$13,141
Job Number: T241

*Position: Technician, GR21
Department: Division of Nutritional Sciences
Description: Assist, under limited supervision in research utilizing recombinant DNA techniques; construction and screening of libraries. Follow biochemical protocols; design, execute and analyze experiments. Perform routine lab maintenance. Monday - Friday, 39 hrs—week until 11—30—85; renewal contingent upon continuation of funding.

Requirements: Bachelor's degree or equivalent in biochemistry or related field. Experience with nucleic acid preferred.
Minimum Starting Salary: \$12,469
Job Number: T245

*Position: Technician, GR21
Department: Diagnostic Laboratory
Description: Perform a variety of microbiological techniques including AGID tests, serum neutralization tests, complement fixation and antigen preparation and standardization. Overall responsibility for all samples submitted for the Blue Tongue and Bovine Leukosis virus state survey program.

Requirements: Bachelor's degree or equivalent in microbiology or related field. One to two years laboratory experience. Experience in serology working with infectious agents; good sterile techniques required. Experience in complement fixation and tissue culture desired.
Minimum Starting Salary: \$12,469
Job Number: T244

*Position: Technician, GR21
Department: Avian & Aquatic Animal Medicine
Description: Assist fish pathologist with development and operation of a research, teaching and service program in fish health. Responsible for a wide range of microbiological, pathological, biomedical and organizational tasks associated with the program.

Requirements: Bachelor's degree in a biological science; Master's degree in biomedical science preferred. Formal training in microbiology and vertebrate anatomy; three years experience in microbiology laboratory or other biomedical experience. New York State driver's license required.
Minimum Starting Salary: \$12,469
Job Number: T242

*Position: Technician, GR20
Department: Diagnostic Laboratory
Description: Perform microbiological and immunological tests on specimens for the detection of MYCOBACTERIUM PARATUBERCULOSIS (Johnes) and other Mycobacterium species. Process specimens for isolation and identification; examine cultures; perform serological assays; maintain laboratory records. Some work with low level radiation (14c).

Requirements: Bachelor's degree or equivalent with laboratory experience in microbiology or a related field. Basic bacteriology techniques necessary. New York State driver's license required.
Minimum Starting Salary: \$11,739
Job Number: T243

*Position: Research Assistant
Department: Boyce Thompson Institute
Contact department directly (see below)
Description: Conduct experiments relating to research on the avermectins, a new class of insecticides of microbial origin. Assist in both laboratory and field research examining fungal entomopathogens and their interactions with agricultural chemicals. Maintain insect colonies and rearing facilities. Assist in interpreting data (including statistical analyses), writing technical reports, and presenting research findings to industrial cooperators.

Requirements: Bachelor's degree in biological sciences. Experience in insect rearing and bioassay techniques. Familiarity with safe handling of agricultural chemicals. Background in entomology, with experience in toxicology, preferred.

Minimum Starting Salary: \$11,200
Contact: Dr. T. E. Anderson
Boyce Thompson Institute
257-2030

Position: Computer Production Controller, GR21
Department: Computer Services
Description: Control administrative data processing applications on large IBM systems. Backup operation of RJE terminals and—related equipment. Maintain quality control; verify completion of production systems. Shift work (involves evenings and weekends).

Requirements: High school diploma or equivalent plus two years EDP school. Some MVS—JCL and utility knowledge; computer operations and— or production control experience. Good interpersonal and communication skills. New York State drivers license required. Apply by June 28, 1985.
Minimum Starting Salary: \$12,469
Job Number: T233

Position: Technician, GR21
Department: Genetics and Development
Description: Carry out and record experiments in Drosophila genetics and molecular biology under the direction of the principal investigator; supervise the general functioning of the laboratory including the maintenance of bacterial and fly cultures; assist in teaching techniques to new personnel entering the laboratory.

Requirements: Bachelor's degree or equivalent in biology or chemistry. Some laboratory experience desirable.
Minimum Starting Salary: \$12,469
Job Number: T235

Position: Computer Operator, GR20
Department: Geological Sciences
Description: Operate minicomputer; assist in maintenance of computer; assist graduate assistants with operation of system; order supplies; maintain records; assist computer programmer. Various shift work with occasional weekends and evenings.

Requirements: Associate's degree or equivalent in computer science. Some experience in the operation of a large minicomputer system is helpful; some programming experience helpful (especially FORTRAN and PL—1). Apply by June 28, 1985.
Minimum Starting Salary: \$11,739
Job Number: T231

Position: Technician, GR19
Department: Genetics & Development
Description: Assist principal investigator and postdoctoral associate in experiments including gel electrophoresis, blot transfers, radioactive labeling, hybridization, autoradiography and nucleic acid isolation. Routine maintenance of culture and plant stock. Prepare cell culture media and solutions. Prepare sterile glassware and apparatus for experiments.

Requirements: Bachelor's degree or equivalent in biological sciences or chemistry. Some laboratory experience preferred.
Minimum Starting Salary: \$11,125
Job Number: T234

Position: Technician, GR18
Department: Equine Drug Testing & Research - NYC area (off-campus)
Description: Perform analysis of blood and urine samples in a field drug testing laboratory to cover Aqueduct, Belmont and Saratoga Race-tracks. Relocation to Saratoga Springs, NY for the month of August each year. Prepare chemical solutions, restock lab supplies, assist with lab cleaning and maintenance.

Requirements: Associate's degree in chemistry or job related experience. At least six months experience with thin layer chromatography and general laboratory procedures.
Minimum Starting Salary: \$10,500
Job Number: T232

Position: Technician, GR18 (Repost)
Department: Division of Nutritional Sciences
Description: Perform standard biochemical procedures for research involving the study of factors affecting the amino acid and protein composition of plants.

Requirements: Bachelor's degree in biochemistry, chemistry, or a related field or equivalent. Knowledge of standard biochemical equipment (e.g. spectrophotometer, liquid scintillation counter) and procedures (e.g. colorimetric procedures) preferred. Apply by June 28, 1985.
Minimum Starting Salary: \$10,500
Job Number: T206



Reunion Row Saturday morning attracted the largest contingent yet of former crew members who plied the waters of the inlet.

Reunion

Continued from Page 3

Pride was in evidence everywhere during the weekend — from the alumni singing along at the Savage Club show and the performance by the glee club and chorus graduates, to the 150 people who participated in or watched the largest ever reunion row on the Cayuga Inlet.

The reunion run was won by two non-Cornellians. Terry Habecker, a soccer and track coach at Ithaca High School, was the first male finisher and 19-year-old Jennifer Kraut of Vestal, N.Y. was the first woman to cross the finish line.

"There's no school like Cornell," said a proud Mary K. Hoyt, 88, of Cohocton,

N.Y., who has attended all of her "five-year" reunions since graduating from Cornell in 1920. "I just loved it from the very first time I came here. I would have liked to open my eyes and see it like it was, though," she admitted. "It's pretty crowded and pretty big."

"It's very nostalgic," commented Beatrice Coleman Wells of Troy, N.Y., a 1935 graduate. "I have fond memories of running up to ring the chimes in McGraw Tower."

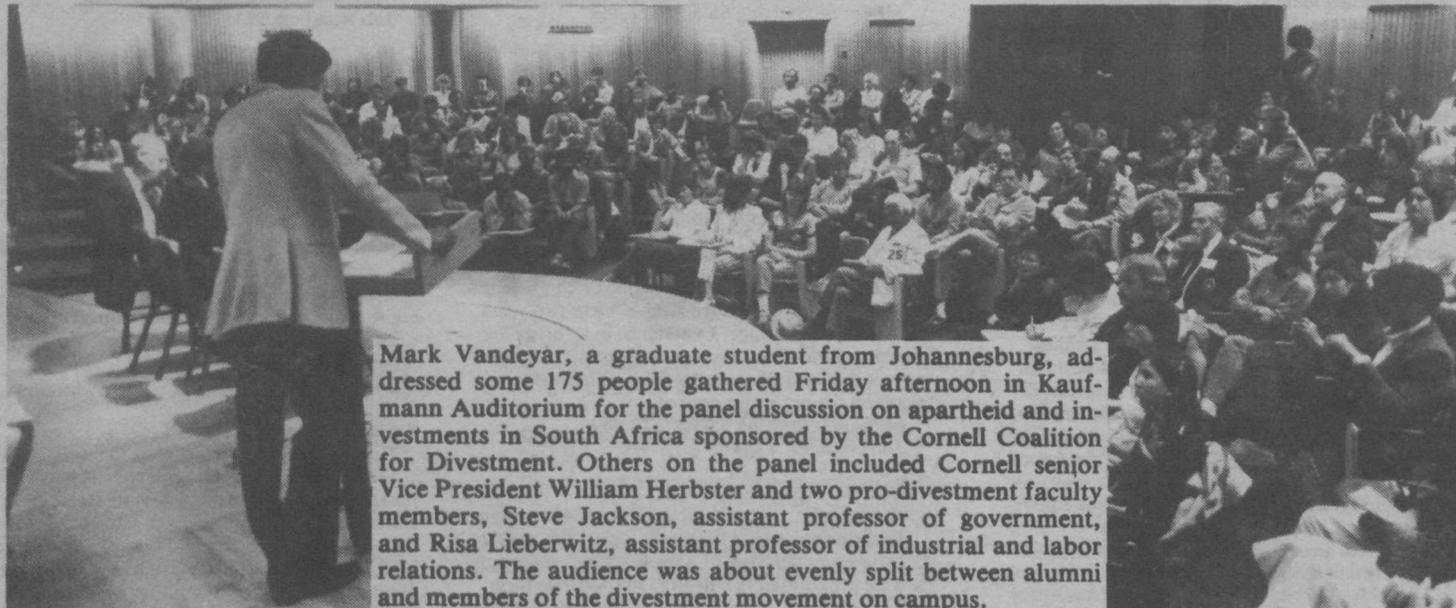
The class of 1935, marking its 50th reunion, won the award for the highest percentage of class members returning — 20 percent of its living 1,101 members came to Ithaca. The class of 1960, with 367 members present, took the title for the greatest number of class

members returning.

Some graduates traveled from Madrid, Honolulu, Hong Kong, and other distant points to renew their ties with Cornell and their classmates. Two alumni — Sara T. Jackson of Homer, N.Y., and J. Henry Allen, of Russell, Pa., both 1915 graduates, marked their 70th reunion over the weekend.

Of the 2,310 alumni attending reunion weekend — 30 more than last year — 1,738 were members of the "five-year" and "10-year" classes (i.e. 1980, 1975, 1970, etc.)

"The success of reunion weekend depends upon so many people at the university striving to make it all work," said alumni director Clifford. "I want to thank everyone who helped make the weekend a real joy by extending a warm welcome to the alumni."



Mark Vandeyar, a graduate student from Johannesburg, addressed some 175 people gathered Friday afternoon in Kaufmann Auditorium for the panel discussion on apartheid and investments in South Africa sponsored by the Cornell Coalition for Divestment. Others on the panel included Cornell senior Vice President William Herbster and two pro-divestment faculty members, Steve Jackson, assistant professor of government, and Risa Lieberwitz, assistant professor of industrial and labor relations. The audience was about evenly split between alumni and members of the divestment movement on campus.



Giscard d'Estaing on World Economics

Former French President Valery Giscard d'Estaing, speaking to some 1,300 alumni and others last week, called on the nations of Europe to adopt a single currency that would lead to growth and prosperity in the region.

"The old European nations, endowed by history, are not any more big enough to play, individually, a leading role. Their vital interest is to join forces," Giscard d'Estaing said during his Bailey Hall lecture, which was part of reunion activities at the Samuel Curtis Johnson Graduate School of Management.

"European nations have nothing to lose in the creation of a new currency. Their political independence will not be substantially altered," he argued. Instead, "It would lead to a better functioning of the international monetary system which should in the future be based on three poles:" the American dollar, the European Currency Unit, and the Japanese Yen.

Giscard d'Estaing also held a news conference with representatives of regional and local media during his visit to Cornell. His lecture was made possible by a gift from the Frank Stanley Beveridge Foundation.

Job Opportunities

Continued from Page 7

Part-time

*Position: Senior Departmental Assistant, GR18
Department: Olin Reference
Description: Perform general departmental duties such as type correspondence, reports, memos, bills; input and manipulate data on microcomputer; sort mail; order supplies; maintain office files; answer telephone; assist reference librarians with special projects; format and prepare drafts and final copies of instructional materials. Other duties as assigned. 20 hours—week.
Requirements: Associate's degree or equivalent. Medium typing. Good interpersonal skills. Ability to work independently. Word processing experience and graphics ability. General office skills.
Minimum Starting Salary: \$10,500—annual equivalent
Job Number: C242

*Position: Office Assistant, GR18
Department: Avian & Aquatic Animal Medicine
Description: Answer phone; act as receptionist; type correspondence and purchase orders. Make travel arrangements; type vouchers; maintain files; handle mail; and xeroxing as needed. Assist in maintaining accounts receivable; prepare C. U. Stores billing for payment; and assist in other office duties as assigned. Monday - Friday, 1:00 - 5:00 p.m.
Requirements: High school diploma or equivalent. Business or secretarial school desirable. Medium typing. Excellent interpersonal and organi-

zational skills. One year secretarial—office experience. Some accounting skills necessary (knowledge of Statutory Accounting procedures would be helpful). Familiarity with personal computers helpful.

Minimum Starting Salary: \$10,500—annual equivalent
Job Number: C249

*Position: Office Assistant, GR18
Department: Clinical Sciences—Veterinary Medical Teaching Hospital
Description: Assist and provide back-up to the Personnel Associate in the department of Clinical Sciences—Veterinary Medicine Teaching Hospital with personnel—payroll functions. (Approximately 300 employees) Part-time, regular, 25 hours—week -- flexible.

Requirements: High school diploma or equivalent. Light typing. Computer experience desirable, absolute confidentiality required.
Minimum Starting Salary: \$10,500—annual equivalent
Job Number: C248

*Position: Technical Sales Assistant, GR17
Department: Campus Store
Description: Sell computer manuals, software, and supplies. Maintain accurate inventory and assist in development and implementation of computer sales and inventory system. Operate computerized cash register. Monday - Friday, 8:30 - 12:30—1:30; every 3rd Saturday, 10:00 - 2:00.
Requirements: Two years college education or equivalent. Retail experience preferred. Ability to operate—learn to operate microcomputers such as

IBM PC, DEC, Rainbow, Apple Macintosh, and demonstration of applicable software such as Word Perfect, Microsoft Word, Multiplan. Good communication and interpersonal skills.

Minimum Starting Salary: \$9,967—annual equivalent
Job Number: S243

*Position: Binding Assistant, GR16
Department: Binding—Serials—Olin Library
Description: Prepare and apply call number labels to books; paste date due slips in appropriate items; maintain statistics; insert magnetic tapes for security purposes. Other duties as assigned. Monday - Friday; 20 hours—week.

Requirements: High school diploma or equivalent. Medium typing. Ability to perform detailed, repetitive work with accuracy and speed; manual dexterity; strong organizational skills.
Minimum Starting Salary: \$9,494—annual equivalent
Job Number: C2420

Position: Office Assistant, GR17
Department: Unions and Activities
Description: Assist in making room reservations for all non-academic events at Cornell including lectures, films, dances, concerts, rallies, etc; assist campus organizations in arranging set-ups and audio visual equipment and other special services; schedule rooms for prelims; type the Cornell Chronicle Calendar of Events. Part-time position. Monday - Friday 8:00 a.m. - 2:00 p.m. Nine month appointment.
Requirements: High school diploma or equivalent. Medium typing. Minimum one to two years

office experience. Familiarity with office procedures. Some experience with computer terminals helpful. Excellent organizational, interpersonal and communication (oral and written) skills.

Minimum Starting Salary: \$9,967—annual equivalent
Job Number: C234

Academic

Please contact department directly.

*Position: Document Delivery Librarian
Department: Mann Library
Contact: Carol Phylla, 235 Olin Library
Job Number: A241

Position: Research Associate III
Department: Division of Nutritional Sciences
Contact: Dr. M.C. Nesheim, Director, Division of Nutritional Sciences, 124 Savage Hall.
Job Number: A231

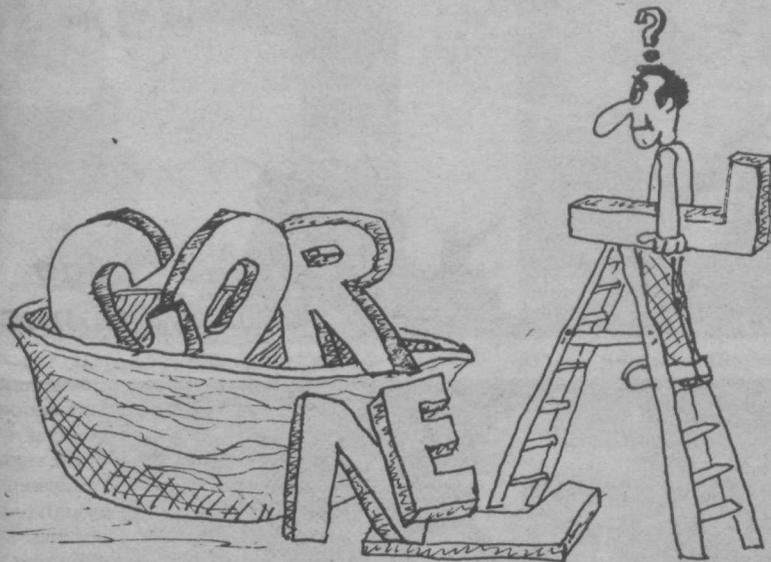
Position: Research Associate IV
Department: Division of Nutritional Sciences
Contact: Dr. M.C. Nesheim, Director, Division of Nutritional Sciences, 124 Savage Hall
Job Number: A232

Position: Assistant Professor
Department: Anthropology, South Asia Program
Contact: Davydd J. Greenwood, 170 Uris Hall
Job Number: A233

Networking

A Cornell Newsletter Published by Employees for Employees

A Nutshell Is Inadequate To Describe Cornell



A recent meeting of the Cornell editors group featured guest speaker Austin Kiplinger, Editor of the Kiplinger Washington Letter, Changing Times magazine, and chairman of the Board of Trustees at Cornell. During the informal discussion that followed the talk Kiplinger was asked: 'What is Cornell's personality?' He hesitated for a moment, then said 'That's a tough one. Any description should reflect the multitude of things that people do here. There's nothing under the sun that can't be found at Cornell. But that doesn't really answer your ques-

tion.' After another moment of reflection he continued, 'Cornell is unlike most places in that it cannot be described by a single, distinct characteristic. There are so many different kinds of people doing so many different kinds of things here that it is impossible to put Cornell's personality in a nutshell.'

Kiplinger then paused, and with a smile that told of a pleasant revelation, he said, 'By golly, I just described America, didn't I? I guess that's my answer to your question. Cornell's personality is America's personality.'



From left: Devon Babbage, Karen Baker, Christine Busuttill and Marcy Diamond.

CRC Sponsors 'Through the Years'

The Ithaca Academy of Dance, under the sponsorship of the Cornell Recreation Club, will present 'Through the Years - Our 50th Anniversary,' a musical-dance revue featuring all types of dance performed by dancers of all ages. The review will be held at 7:30 p.m. Friday, June 28th, and Saturday, June 29th at the Alice Statler Auditorium, Cornell University. 'Through the Years' celebrates Stanley Bower's 50th Anniversary of teaching dance in Ithaca. Dances will be performed to music from the Thirties to the present, such as 'Slaughter on Tenth Avenue' from the Thirties and 'Chattanooga Choo Choo,' popular in the Forties. The Fifties will

be recreated with 'Bandstand Boogie,' and Broadway favorites of the Sixties and Seventies will include 'Sweet Charity,' 'Mame,' 'Hair,' 'Annie,' and 'Jesus Christ Superstar.' Break dancing of the Eighties will also be featured.

The Ithaca Academy of Dance is under the direction of Diane Bower Chiucci, former Radio City Music Hall Rockette, Ralph Chiucci, and Stanley Bower.

Reserved seat tickets are available at the studio, 102 W. State Street. General Admission tickets may be purchased at the studio or at the door.

Plantations Peonies in Bloom

If you're headed for Cornell Plantations this week to sniff the double peonies, you're in for a surprise. The fragrant red and white 'King of Flowers' will be in full bloom, but the American Peony Society Garden will look different than it did in other years.

'We're trying to make the garden a collection of landscape peonies,' says Mary Hirshfeld, Cornell Plantations botanical garden supervisor. Hirshfeld says that the double peonies, which require extensive staking, are being replaced by plants that require less attention. The new 'single' peonies are smaller and better suited to the home gardener. 'I also think they're more attractive,' says Hirshfeld. 'They have some personality.'

Renovations, which are now more than half complete, call for interspersing shrubs and perennials among the peonies. About 200 new plants are already in place.

The garden, begun in 1977, was dedicated to the American Peony Society in 1980. It emphasizes the diversity of the genus Paeonia. Designers used landscape ties to define nine raised beds that are unique in size and shape. Each one displays peonies of different heights, flower form, foliage type, fragrance, and time of bloom.

Both herbaceous and tree peonies are planted in the garden. Herbaceous peonies have stems that die back each autumn, whereas the woody stems of the tree peon-

ies persist throughout the winter. Of special interest to visitors is the 'Yellow Dream,' a cross between a herbaceous peony and tree peony that blossoms in mid-June.

SEE NEW DATES

NETWORKING'S
THIRD ANNUAL
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EXHIBIT

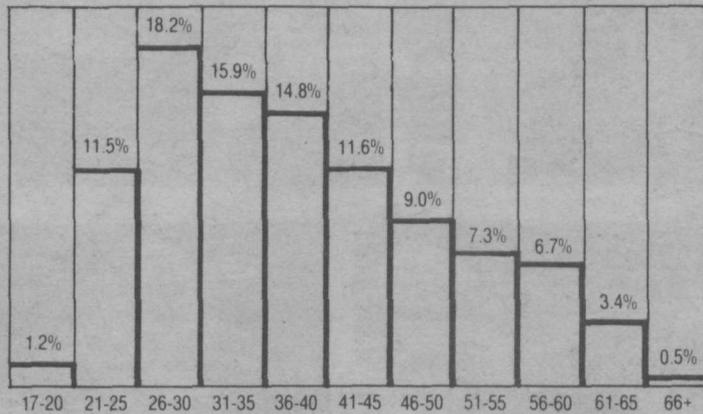
THE JOHN HARTELL GALLERY
SIBLEY DOME

JUNE 24TH THROUGH
JULY 13TH, 1985

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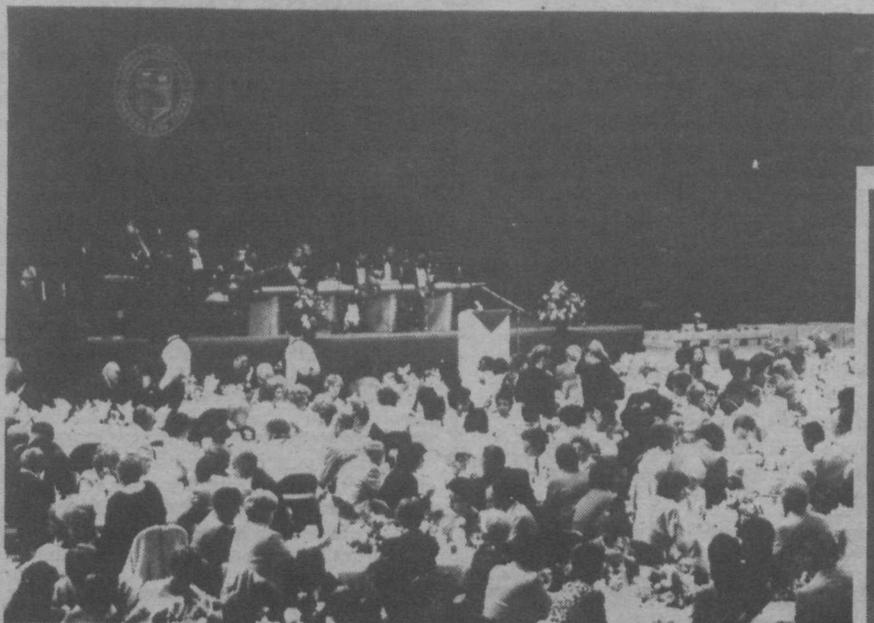
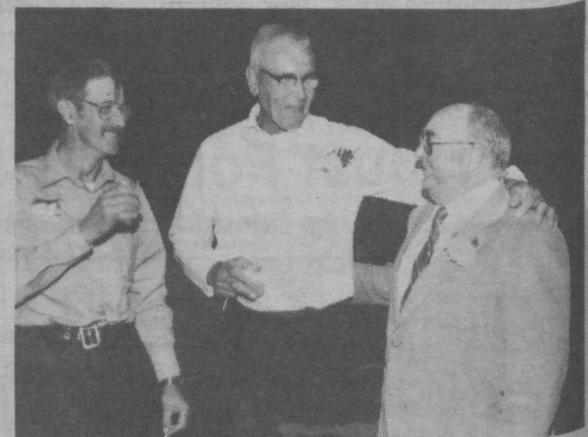
Just For Your Information

Age distribution of permanent non-academic employees.



Even though the largest group of employees according to age is the 26 to 30 year old group with 18.2% of the total work force, almost 350 employees were honored at this year's Employee Recognition Banquet for between 26 to 40 years of service to Cornell.

Service Recogni



30th Annual Service Recognition Banquet — 1985

CRC News



CORNELL RECREATION CLUB

165 Day Hall Ithaca, New York 14853

Trips and a Night at the Races

by Sally Clark

Dates have been set for the 1986 Hawaii trip. They are January 8th through January 22nd. The price is \$950.00 which includes air fare, hotel accommodations, transfers between hotel and airports, the services of a tour guide while in Hawaii and a bon voyage party. Reserve your place soon. Call the CRC Office for details.

Don't forget the annual CRC Picnic. This is the 4th year for the picnic which will be held on Saturday, June 22nd at the Helen Newman grounds. Let's all get out and have a good time and support our CRC Club. Tickets are available at the CRC Office.

Watch for details regarding the Springside Inn Dinner Theater. A tentative date is set for mid-August.

The Hill Cumorah pageant will be held in Palmyra, NY. CRC is accepting reservations for Friday, July 26th. The bus will be leaving at approximately 5:00 p.m. and will return between 1:00 a.m. - 2:00 a.m.

Don't forget to vote in the election of Board of Directors members. Ballots have been sent out. Make selections and return the Ballot to 165 Day Hall.

If you have any questions in relation to CRC events, call the CRC Office at 256-7565 or stop in at 165 Day Hall for details.

At 4:00 p.m. on Saturday, May 25, forty eager horse racing fans left 'B' Parking Lot for Vernon Downs. When we arrived at the town of Vernon, Frank Sutfin, the trusty group leader, asked Clarence Moore, our Swarthout and Ferris bus driver, to stop at a local establishment so Frank could get some 'hot' tips on how to bet on the horses, with the hope that everyone would return home 'big' winners. Nice try Frankie!!

On arrival at the Club House at Vernon Downs, there was a sign welcoming 'CRC' and the Club was acknowledged over the PA system. Our reserved tables were ready and everyone enjoyed a delicious buffet. The buffet was open from 6:00 to 9:00, so everyone could partake until closing.

The weather was perfect; some stayed indoors (by the buffet) and others watched the races outdoors.

After the races forty people returned to the bus for the return ride home; no one was returning rich, most poorer than when they arrived, but enthusiastic and looking forward to another 'CRC Evening at the Races!'

Benefair Raffle

The winner of the raffle, held at the Benefair in May, is Caroline Spicer. Caroline won a CRC family membership for one year. Congratulations, Caroline.

Summer Dining At Cornell

The Ivy Room at Willard Straight Hall
7:00 a.m.-7:00 p.m. - Mon.-Sat.; 9:00 a.m.-7:00 p.m. - Sun.

Straight from the Oven (Bakery outlet in Willard Straight Hall)

Same hours as Ivy Room

Red Bear Cafe

7:00 a.m. - 1:30 p.m. - Mon.-Fri.

Big Red Barn Food Service

10:00 a.m.-2:00 p.m. - Mon.-Fri.

Alfalfa Room

8:00 a.m.-4:00 p.m. - Mon.-Fri.



40 Year Awardees (Standing) Patrick Filley, Floyd O'Grady. (Seated) Ruth Sherman. (Not pictured) Catherine Abbott, Ann Churey.



35 Year Awardees (Standing left to right) Robert Carlton, Ramon Mehlenbacher, Fleet Morse, Oscar Cooper, Donald Smith. (Seated) Angelina Torchia, Elizabeth Pirko, Elissa Olvenano, Ann Faben. (Not pictured) Benjamin Hilton, Douglas Stone, Jr., John Watson, Donald Wright.



30 Year Awardees (Standing left to right) William Parker, Thomas Kenny, Gordon Foster, Elbert Smith, J. Robert Turk, Daryl Dunn. (Seated) Margaret Mason, Joyce L. Peterpaul, Jane Salino, Dorothy Rollins. (Not pictured) Helen Allmendinger, James Estes, Solomon Goldberg, Raymond Mallaber, Daniel McCord, Pauline Oswald, Richard Ramin, Robert Tvaroha, John West, Joyce Wicksall.

The 30th Annual Service Recognition Banquet was held in Barton Hall on Tuesday evening June 11 with 464 in attendance. Those present included awardees, their guests, employees with over 25 years of service and members of the administration and Employee Assembly.

There were 107 awardees honored at this year's banquet for exactly 25, 30, 35, or 40 years of service to Cornell. That's a total of 3,000 years of combined service!

The number of awardees in the 25 and 40 years categories has doubled since last year.

Altogether almost 350 employees were recognized this year for between 25 and over 40 years of service. Thirteen employees attending have been at Cornell for 41 to 44 years.

In addition to a prime rib dinner, everyone was privileged to hear President Frank Rhodes speak. The Joe McConnell band entertained during dinner and again, after the awards were presented, for those who wished to remain for dancing. It was a gala evening.



25 Year Awardees (Top row left to right) Alfred Parente, Donald Lipker, Gordon Schoneman, Lyle Wadell, Louis Eberhardt, Laurence Orton, Charles Beaujon, Gordon Roberts, Alfis Reed, Donald Pell, Harry Wallin, Jr., Joseph Stupke, Seville Reulein. (Middle row) Patricia Dougherty, Jane Roberts, Helen Wilkins, Joan Manning, Frederick Johnson, Muriel Chaires, Evangeline Broughton, Patricia Graham, Francine Reed, R. Bruce Le Claire, Robert B. Howe, Frances Barnes-Pallesen, David Dunlop, Edward Couch. (Bottom row) Frieda Alexander, Verma McClary, Betty Rush, Mary Mike, Shirley Pendell, Amelia Longo, Barbara McDonald, Elaine Ostrander, Nancy Voorheis, William Sherring, Carolyn McGorry, Frank Sutfin. (Not pictured) Betty Claffin, Leo Collins, Gertrude Conant, J.F. Creighton, Frank Heroy, Andrew Kobre, Leon Lind, Joseph Mazza, Ertherlee Broughton, Rodney McDuffee, Ellen Rider, F. Sawicks, James Smith, Robert Steen, Elsie Stobbs, Franklyn Tunison.

Employee Calendar

Events of Particular Interest to Cornell Employees

Saturday, June 22. The CRC Annual Summer Picnic, 10:00 a.m. - 6:00 p.m. on the Helen Newman grounds. FREE TO ALL CRC MEMBERS. YOU MUST HAVE A TICKET TO ATTEND. Call or stop by the CRC Office, 165 Day Hall, 6-7565 to get your ticket. Extra tickets may be purchased for guests.

Wednesday, June 26. 12:00, Room 105 Space Sciences Building. Brown Bag Luncheon Series: Mini-version of a demonstration of the Cornell New Employee Orientation Program, will include slides and brochures. Current employees are encouraged to attend, audience comments and ideas are welcome. Co-sponsored by the University Personnel Services, the Employee Assembly and the Employee Trustees. Light refreshments will be served.

Thursday, June 27. Annual Meeting of CRC, 4:00 p.m., Room 105 Space Sciences Building.

Monday, July 1. Experimental College summer leisure course registration. 8:30 a.m. to 3:30 p.m., Barton Hall (Summer Session students only.) For more information, call 256-7131.

Tuesday, July 2 and Wednesday, July 3. Experimental College summer leisure

course registration. 8:30 a.m. to 3:30 p.m., Terrace Lounge, Willard Straight Hall. For more information, call 256-7131.

Wednesday, July 3. Employee Assembly meeting, 12:15 p.m., B-8 Roberts Hall.

Saturday, July 13. Old Timer's Day at Yankee Stadium, sponsored by the CRC. Cost will be \$30 which includes a box seat and bus fare. Call CRC Office, 6-7565 for more information.

Wednesday, July 17. Employee Assembly meeting, 12:15 p.m., B-8 Roberts Hall.

Friday, July 26. The Hill Cumorah pageant held in Palmyra, NY. Sponsored by the CRC, bus leaves approximately 5:00 p.m., show starts at 9:00 p.m. Returning between 1:00 - 2:00 a.m. Call the CRC Office if interested.

Wednesday, August 7. Employee Assembly meeting, 12:15 p.m., B-8 Roberts Hall.

Thurs. - Sun., August 15-18. Cornell Recreation Club trip to Toronto, Canada. Cost is \$210/person, \$5.00 additional to non-members, (double occupancy). Contact CRC Office for further information.

Wednesday, August 21. Employee Assembly meeting, 12:15 p.m., B-8 Roberts Hall.

Wednesday, September 4. Employee Assembly Meeting, 12:15 p.m., Room B-8 Roberts.

Wednesday, September 18. Employee Assembly Meeting, 12:15 p.m., Room B-8 Roberts.

Submit listings for Employee Calendar to editor, University Personnel Services, 130 Day Hall.

Experimental College Offers Summer Leisure Courses

Short, non-credit leisure courses in areas of dance, exercise, arts and hobbies are being offered this summer by the Experimental College, sponsored by the Department of Unions and Activities at Cornell University. Courses offered in this summer's program include dance (jazz, dance/exercise, jitterbug, etc.), sign language, pottery, yoga, vegetarian and oriental cooking, massage and more.

The courses, open to all members of the Ithaca and Cornell communities, are designed to provide opportunities to increase skills and pursue interests in a variety of non-academic areas. The five-week program will begin the week of July 8 and end the week of August 5.

Course registration will be held June 30 through July 3 at the following times and locations on the Cornell campus:

June 30.....3rd Floor Lounge, Noyes Center (for Advanced

Placement students only) 5:00-7:00 p.m.

July 1.....Barton Hall (Summer Session students only) 8:30 a.m.-3:30 p.m.

July 2 & 3.....Terrace Lounge, Willard Straight Hall

(General Public) 8:30 a.m.-3:30 p.m.

'LIFE SAFETY LINES'

Have a Fire-Wise Fourth

Are you planning your Fourth of July celebration? Keep in mind that Independence Day means more than 'the right to pop off.' Stay away from illegal fireworks.

Powerful, rocket-type fireworks and firecrackers are illegal in many localities. That means the ones you buy may very well have been manufactured illegally, without careful attention to quality control.

This is why each year we read of children and teens being injured because a firecracker exploded the instant it was lighted, or because a bottle rocket misfired, flew off sideways, and struck an innocent bystander. There's no amount of care that can make up for the danger of malfunction when using fireworks.

On the other hand, sparklers that are legal in many areas must always be used with caution. Be firewise; use sparklers outdoors under adult supervision, on a driveway, sidewalk, or other fire-resistant surface. Don't use them under windy conditions. When finished, deposit them immediately in a noncombustible container. They might be stepped on while hot or be lost, only to be found in the grass at the next lawn mowing.

For a holiday that's both safe and exciting, attend the professional fireworks display sponsored by Cornell University on Monday, July 1. This show is staged by trained, licensed professionals, who use carefully-manufactured and inspected fireworks. This fireworks display is safe and far more spectacular than anything you could produce yourself in the backyard.

Even at 'professional' displays, certain precautions are in order. At a small display it's important that the people who are staging it know what they are doing. If you're close enough to see what they're doing, you are close enough to be injured if an accident occurs.

It's a fact: fireworks are dangerous...too dangerous to use yourself. Enjoy the Fourth this year fire-wisely, at a festive, well-organized display that is operated by experienced professionals who use name-brand commercial grade fireworks. From Cornell University Life Safety Services, have a happy Fourth of July.

Unclassified Ads

FOR SALE: The family place, 4 bedroom farmhouse, eat-in kitchen, w/ Franklin stove. 2 1/2 baths, fully insulated, 2-zone hot water baseboard heat, rap around porch, sundeck. Lots of privacy, easy maintenance. 12 park-like acres, with many extras, more land available. Some owner financing, \$79,500. Call Ruth at 6-2295 or 1-589-6500.

FOR SALE: Upright freezer, 21.1 cu. ft., \$275. Just in time for garden produce. Call Ann, 6-6370.

FOR SALE: By owner, 26 acres on west side of Ed Hill Rd. (2 mi. NE of Freeville). 7 acres of meadow along road, 690 ft. frontage; creek; the rest woods, some wet; no buildings, \$15,000, call 272-1860.

FOR SALE: English saddle, Cortina, excell. cond. \$150 - 3 western saddles, prices start at \$100, 256-9375 anytime.

FOR SALE: Lovely country home, L-shaped ranch, 3 bedrms., 2 full baths, living rm, dining rm., kitchen w/appliances, family rm. w/fireplace, pantry, foyer, full basement. Many other extras. Asking low \$60's. Private yet convenient to Ithaca & Elmira, off Rte. 13. Call Phyllis, 6-4904 (days) or 594-2544 (eves.)

FOR SALE: '1985' Suzuki 185s, 3 x 6 three-wheeler, reverse gear, good cond. 272-6891.

FOR SALE: 1971 Buddy mobile home, 12 x 70, good cond. 257-3054 anytime.

FOR SALE: 1980 Suzuki GS450 Model E, just like new. Black w/striping. Must sell. Call Leora 6-6240 days, or eves. 347-4039.

FOR SALE: Portacrib mesh, converts to small playpen - \$15; portable high chair - \$12. CB radio - 23 channel, Midland \$60. Desk - 7 drawer, mahogany, \$75. Gery backpack \$15. High Chair - Colonial \$15. Baby bathtub - \$3. Call Karen at 6-6218 or 589-6749.

FOR SALE: Kenmore washer & dryer, \$75 the pair. Sump pump, \$30, Antique brass bed (single) \$125. Bach trumpet (very good cond.) \$275. Armstrong flute \$135. 257-0671 (eves.)

FOR SALE: 1977 Kawasaki motorcycle, 1200cc. Fully dressed, asking \$1,500. Call after 4 p.m. 659-5843.

FOR SALE: Family moving sale, furniture, color tv, stereo, plants, kitchen utensils, etc. 6B Pleasant Grove Apts. Also: DATSUN S. wagon, 5 dr., many extras, reliable, \$1,380. Call 257-5392.

FOR SALE: MW shelf vent hood that supports microwave, self-venting or vents thru wall - \$140, Kolcraft car seat \$25. Karen, 6-2177.

FOR SALE: Accurized Daisy model 777, Precision air pistol, w/accessories. A proven match winner, \$150. call Gary 6-7515.

Non-refundable fees are charged for all courses.

Brochures, listing complete course descriptions and registration details, will be available after June 21 at the Noyes Center, Willard Straight Hall and the Day Hall Information and Referral Center.

For more information, call the Experimental College office at 256-7131.

FOR SALE: Antique walnut parlour organ, wheat carvings, beautifully refinished, Still works! Call 539-6378 eves. or weekends, 6-5454, ext. 2099 days.

FOR SALE: 183 Ford Escort, 2 dr. Hatchback, 26,000 mi., blue, 4-speed, mint \$4,100. Also: 1975 Honda, CB200T - Silver, excellent cond. \$425. Call 898-5778.

FOR SALE: complete Bk/wh, darkroom set up, Omega D-2 enlarger 4x5 capable. \$295. Call 272-1954.

FOR SALE: 1983 Chevy S-10 Pickup, Tahoe package, 15,000 mi. ex. cond., extended cab, canvas box cover, bed mat. Call Barb, 6-4652 days, 272-0816 after 5:00.

FOR SALE: Waterbed, queensize, w/bookcase headboard. Moving, must sell. \$100. Call Marty, 272-0816.

FOR SALE: 1981 G1100 Honda Gold Wing, 6,400 mi. very clean, Call 642-8677, after 6:00 p.m., Also: 1983 Cutlass Supreme Brughan - ex. cond. Loaded, electric sunroof and windows, cruise, air, velour interior. Moving, must sell. Call 6-6218 days, Tami.

FOR SALE: Hate to, must sell my 1981 Ford pickup, 1/2 ton, 4x4, 4 speed, OD. 58,000 mi. Colorado truck, no rust. Call Phyllis 6-6585.

FOR SALE: Picnic style table, great for this time of year, seats, approx. 8, \$15; also kitchen sized table, \$15, or \$25 takes both. Call Cindy, eves. 277-1830.

FOR SALE: IBM COMPATIBLE COMPUTER SYSTEM includes: 256K RAM, CPM-80 compatibility, system unit and keyboard, 1 360 K D5DD, drive, Amber Taxxon Monitor, Okidata 92P printer, all necessary cabling, parallelport, serial port, & following software: MSDOS 2.0, GW Basic, Wordstar, Perfect Writer, Perfect Calc. Super Calc. 3 & C/term communications. Deal support will carryover to new owner. \$2,250. Call Dan 273-8103 days, eves. 594-2825.

FOR SALE: 1974 Chevrolet pickup, good box, good engine, good transmission. Frame bent. 272-2997.

MUST SELL: 1975 Olds Starfire, 6 extra sport rims, 84,000 mi. good cond. \$950; Amerigo truck-mount camper, sleeps 6, self-contained \$2,900 (both items neg.) 564-9375 or 6-5257, Bernie.

FOR RENT: Exceptionally attractive 3-5 bedrm. house, near Cornell, available 9/85-6/86. Rent \$800 utilities. Call Fred Gouldin, 6-5250. Students need not apply.

FOR RENT: Unfurnished 2 bedrm. apartment, walking distance to Pyramid Mall, \$400/mo.; includes utilities. References required. Call 257-2299.

WANTED: Picnic table - CHEAP. Call eves. 273-7650.

WANTED: Temporarily displaced family of four, a furnished place to live from July 15 - August 15. Call Marsha at 6-6511 days, 315-364-8724 eves.

RIDESHARING AVAILABLE: TRUMANSBURG TO CORNELL - Leave Trumansburg 7:10, arrive Engineering area 7:40 a.m. Leave 4:30. call Diane Nelson 6-6445.

Please submit all classified ads to Linda English, NAIC, Ind. Research Park (via campus mail). The deadline for the July 11th issue of NETWORKING is July 1st. At this time, all Unclassified ads are free of charge to faculty, staff and graduate students.

1985 Holiday Schedule

Holiday(s)
Independence Day:
Labor Day:
Thanksgiving Day:

Winter Holidays:

Date
July 4 (Thursday)
September 2 (Monday)
November 28 (Thursday)
November 29 (Friday)
December 25 (Wednesday)
December 26 (Thursday)
December 27 (Friday)
December 30 (Monday)
December 31 (Tuesday)
January 1, 1986 (Wednesday)

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