CORNELL

Rural programs

The celebration begins!

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rankings

Journalistic

American Indian House could be built within year

An American Indian House, which will be closely integrated with academic programs, has received approval that will allow construction of a building within a year.

The building will house 35 undergraduates — half of them non-Indians — and will include an apartment for visiting faculty, space for a resident graduate student, several offices and perhaps such academic space as a library or seminar room.

The program house will be jointly administered by the vice president for academic programs and the dean of the College of Agriculture and Life Sciences, which is the seat of the seven-year-old American Indian Program (AIP).

Cornell's Board of Trustees approved the program-house idea in January 1987. The

latest development was the recent approval from the university's Capital Funding and Planning Committee, which authorized hiring an architect to design the house with fall 1990 occupancy as the target.

The committee's action was announced jointly by David L. Call, dean of Agriculture and Life Sciences, and Larry I. Palmer, vice president for academic programs, who said, "One of the exciting aspects of this plan is that, from its inception, the program house will have a strong academic context to be part of."

While Cornell has eight other residential program houses, they all are administered by the Department of Residence Life, and their members' common interests are related only informally to academic programs,

with the sole exception of Language House.

In discussing the academic base for the new house and its intended integration into residential life, Call and Palmer said: "Cornell's American Indian Program includes 18 courses and an independent-study option. Faculty and student participants come from several Cornell colleges, and we get significant funding from the central administration in addition to state support through the Agriculture College. AIP also supports its own research, provides special financial-aid programs and has extension programs that serve the reservations while sustaining their ties with students coming to Cornell and to units of the State University of New York.

"We will make every effort to incorporate the richness and vitality of the total program into the life of the residential house."

The program's core of courses covers American Indian history, culture and philosophy, with an emphasis on the Iroquois and other Indians of the northeast, according to AIP Acting Director Ronald LaFrance.

"We'd like all Cornell students to know something of the unique heritage of American Indians and of their success at living harmoniously with nature and their fellows," he said. "The new residential program house will reinforce our teaching, enrich the Cornell experience for both American Indians and others and provide an even stronger Cornell base for supporting New York state's 40,000 American Indians."

Continued on page 8

CRUNCHY!

Chemist's new food-preserving process keeps canned vegetables firm and crisp

A new food-preserving process that makes canned vegetables nearly as firm and crunchy as fresh vegetables has been invented by Cornell chemist Malcolm C. Bourne.

Bourne announced his advance on Sept. 12 at the national meeting of the American Chemical Society, where he described experiments that already have produced far crispier canned carrots, beans and cauliflower.

Bourne is a professor of food science and technology at the New York State Agricultural Experiment Station at Geneva, N.Y. The process involves lower-than-normal cooking temperatures, a brief holding period to allow a naturally occurring food enzyme to "fix" the vegetables' crispness, and the addition of calcium and citric acid. Cornell has applied for a patent on the canning process, which works in the laboratory and could be used commercially in a few years, the food scientist said.

"Not much has changed in food canning since the Frenchman Nicholas Appert invented the process in 1810." Bourne said in an interview before the ACS meeting. "Napoleon was preparing for his Russian campaign, and he wanted a better means of preserving food for the troops. Appert won the prize of 12,000 francs for the process, and we've had mushy canned vegetables ever since."

More stories about presentations at the American Chemical Society meeting in Miami are on Pages 6 and 7.

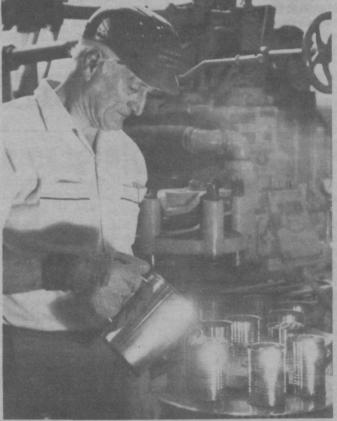
Vegetable canning, as currently practiced by home canners and commercial food processors, involves two cooking steps: a short period of blanching vegetables in boiling water to drive out gases so that more vegetables can be packed in the can or jar, and a longer period of heating in the container to sterilize the vegetables and kill microorganisms that would cause botulism.

"We can't cut short the sterilization; nobody likes to die of botulism," Bourne said. "But we suspected that vegetables were losing their firmness during the blanching stage and wondered if using less heat at that point would preserve the crispness."

Bourne began investigating the chemical reasons for the mushiness of cooked vegetables. He realized that the heat of cooking breaks down the large, complex pectin molecules that are responsible for firmness in fresh vegetables. The breakdown process is called depolymerization.

He discovered, however, that one enzyme found naturally in almost all plant tissue, pectin methylesterase, or PME, seemed to have potential for reversing the softening effects of cooking.

PME builds "salt bridges" out of the spare calcium atoms in



Dick Schading

Professor Malcolm Bourne cans a small batch of crunchy carrots with his new technique at the pilot food-processing plant in Geneva.

vegetables, Bourne explained. If conditions favor the enzymatic action, the result is more linkages and a larger pectin polymer and crisper foods. He began to experiment to find the ideal conditions for the action of PME.

The Geneva Station, with its pilot food-processing plant, prepared thousands of cans of beans, carrots and other vegetables at various blanching temperatures and "holding times" before sterilization. The holding time would give the PME a chance to work before the vegetables were reheated during sterilization. A holding time of 30 minutes was estimated to be the most that commercial canners could afford in the production line.

A blanching temperature of 140 to 150 degrees Fahrenheit

Continued on page 6

CU surgeon links diet, colon cancer

Dr. Jerome DeCosse, professor of surgery at Cornell Medical College and attending surgeon at The New York Hospital, has produced the first direct scientific evidence that a high-fiber diet can shrink the size and number of precancerous polyps of the lower intestine and thus reduce the risk of colon and rectal cancer.

"The study clearly indicates that dietaryfiber intervention is a valid strategy in colon-cancer prevention," DeCosse said. "And it appears that all persons at risk of developing colon-rectal cancer can benefit from increasing their intake of fiber and also reducing their intake of fat."

Cancer of the colon and rectum is one of the most prevalent forms of cancer among Americans and is, after lung cancer, the second most frequent cause of cancer mortality in the United States.

DeCosse's study, published in the Journal of the National Cancer Institute, was a randomized, double-blind, placebo-controlled study with a carefully defined group of 58 patients who had familial polyposis, an inherited condition characterized by the continuous formation of colon and rectal polyps, which, without treatment, become cancerous.

Half of this group was asked to eat two servings of a high-fiber cereal (Kellogg's All-Bran) and the other half two servings of a look-alike low-fiber cereal, every day for four years.

Half the subjects in each of these groups were also given vitamin C and E supplements to examine the effect of these vitamins on the formation of rectal polyps. All participants were periodically monitored for their degree of compliance and for the amount of dietary fat ingested over the four-year period. Participants, who had previously undergone removal of their colons, underwent rectal examinations every three

Results of the study showed that the size and number of rectal polyps decreased for those in the high-fiber group who complied most closely with their prescribed regimen. No such treatment effect was found in the low-fiber group. Additionally, fewer polyps developed in those taking the vitamin supplements, though this was not found to be

Continued on page 8

NOTABLES

Olivia S. Mitchell, associate professor of Industrial and Labor Relations, has been named to the National Academy of Social Insurance, a non-profit, non-partisan group "devoted to furthering knowledge and understanding of Social Security and related programs through research and education." Mitchell was one of 25 national authorities named to the academy this year.

The American Society of Horticultural Science has presented Robert F. Becker, extension specialist and associate professor of horticulture at the New York State Agricultural Experiment Station in Geneva, a 1989 Award of Excellence. The ASHS cited Becker for "disseminating information about processing vegetables among the state's growers," and called his work "a model for other informational Extension ef-

Two recent recipients of doctoral degrees in chemistry from Cornell - Laurence E. Fried and Evan R. Williams - are among 18 persons nationwide to receive 1989 Postdoctoral Research Fellowships in Chemistry from the National Science Foundation. The fellowships, which are worth up to \$84,000, were first awarded last year and are designed to encourage "some of the best young minds in the country," to prepare for research careers in contemporary chemistry, according to the NSF announcement. Fried, who received his doctorate in 1988, will conduct postdoctoral research in theoretical chemistry at the University of Rochester. Williams, who earned his doctorate degree this summer, will work at Stanford University developing new instruments to isolate individual components of complex biologi-

William G. Tomek, chairman of the Department of Agricultural Economics, is the 1989 recipient of the American Agricultural Economics Association's Award for Publication of Enduring Quality. Tomek also was elected a Fellow of the AAEA, which has some 5,000 members. Anya McGuirk, who received her doctorate in agricultural economics in May 1988 and who now is an assistant professor at Virginia Polytechnic Institute and State University, won the AAEA's Outstanding Ph.D. Thesis Award

Wilfried H. Brustaert, professor of civil and environmental engineering, has received the Robert E. Horton Award of the Hydrology Section of the American Geophysical Union for "outstanding contribution to the science of hydrology," particularly for his book, "Evaporation into the Atmosphere: Theory, History and Applica-

V. Rada Dyson-Hudson, a senior research associate in anthropology and Robert H. Lieberman, a lecturer in the Department of Physics and the Learning Skills Center, have received 1989-90 Fulbright Scholar Awards. Lieberman is lecturing at the Film Academy in Bratislava, Czechoslovakia, through June 1990. Dyson-Hudson will conduct research in Kenya under the African Regional Research Program beginning next month through June 1990.

BRIEFS

- Big Red on radio: Six AM radio stations, including one in New York City (WEVD), will carry this year's broadcasts of the Cornell Sports Network. The broadcasts will start with the defending Ivy League football champions' opening game on Saturday, Sept. 23, at Bucknell. The network will be on the air at 12:45 p.m. and be heard in the Ithaca area over WTKO/1470. Other stations carrying the network broadcasts are WAUB in Auburn, WCBA in Corning, WKDR in Plattsburgh and WFLR in Penn
- Bloodmobile: The Red Cross Bloodmobile will be at the Noyes Center on Stewart Avenue from 10 a.m. to 3:45 p.m. on Monday and Tuesday, Sept. 18 and 19. Call 273-1900 for an appointment or walk in anytime. Kappa Delta Rho and Pi Beta Phi are sponsoring the two Bloodmobile ses-
- Deadline: Friday, Sept. 15, is the last day to register for Extramural Study or add or drop courses in the program which has offices in B12 Ives Hall, telephone 255-4987.
- Community Report: The second issue of Community Report, a 16-page publication

from and about Cornell, is being mailed this month to residents of Tompkins County. It includes a schedule of university cultural, educational and athletic events open to the public, and it reports on activities of Cornell students, faculty and staff in a wide array of community activities.

- Summer course proposals: Oct. 2 is the deadline for faculty and department heads to submit proposals for courses to be taught in the Division of Summer Session's 1990 program on campus. For more details, contact Mary K. Gloster at 255-4987, B12 Ives
- Breakfast with Rhodes: There are a limited number of openings available for students to have breakfast with President Frank H.T. Rhodes. Those interested are invited to call his office at 255-5201 to make a reservation. The breakfasts will be held from 7:30 to 8:30 a.m. on Sept. 22 in Willard Straight Hall (The Elmhirst Room); Nov. 7 in Robert Purcell Dining (South Dining Room); and Nov. 29 in Noyes Student Dining (The Loft). Reservations are made on a first-come, first-served basis, and those with reservations will be reminded by mail a few days in advance.

Cornell Chronicle

GRAPHICS: Cindy Thiel CIRCULATION: Joanne Hanavan

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It is the policy of Cornell University to support actively equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, age, or handicap. The university is committed to the maintenance of affirmative action programs that will assure the continuation of such equality of opportunity. Sexual hassment is an act of discrimination and, as such, will not be tolerated. Inquiries concerning the application of Title IX may be referred to Cornell's Title IX Coordinator (Coordinator of Women's Services) at the Office of Equal Opportunity at 234 Day Hall, Cornell University, Ithaca, N.Y. 14853-2801 - telephone (607) 255-3976.

Cornell University is committed to assisting those handicapped students who have special needs. A brochure describing services for the handicapped student may be obtained by writing to the Office of Equal Opportunity, 234 Day Hall, Cornell University, Ithaca, N.Y. 14853-2801. Other questions or requests for

special assistance may be directed to that Office.

Cornell to seek \$121.8 million in state funds for 1990-91

Cornell will ask the state for \$121.8 million to operate its state-supported colleges in the state's fiscal year that starts next

The decision was approved by the Executive Committee of the Board of Trustees, which met in New York City on Sept. 7.

The total would be about 7.6 percent above the current budget for the College of Agriculture and Life Sciences, College of Human Ecology, College of Veterinary Medicine and the School of Industrial and Labor Relations. But about seven-eighths of the requested increase is to meet salary increases, actual utility costs, and inflationary increases required to maintain existing programs and plant operations, officials

A total of \$1.2 million was requested for new programs, including efforts to help youth-at-risk, broaden Cornell's American Indian Program, support child care and expand an ILR project to help small businesses improve their efficiency.

Nathan Fawcett, director of statutory col-

Barton Blotter

DA reviewing revisions to drivers licenses

The Tompkins County district attorney's office is reviewing cases against four Cornell students arrested since Sept. 1 on charges of altering the birth dates on their drivers licenses.

According to Public Safety Lt. Randall H. Hausner, changing the birth date on a drivers license is considered forgery and a felony under New York state law.

The licenses usually are altered by persons under 21 in order to purchase alcoholic beverages, Hausner said. Two of the arrests were made over the weekend and one student also was charged with DWI, he said.

Other incidents listed in the morning reports of the Department of Public Safety for Sept. 4 through 10 included the spray-paint defacement of the main door to Goldwin Smith Hall with the words "Smash the Greeks." The incident, apparently in reference to fraternities, occurred sometime between 3 p.m. Friday, Sept. 8, and 9:45 a.m. Saturday, Sept. 9. There were 10 thefts reported on campus, including a \$1,500 banner and three marble blocks worth \$600 stolen from the Center for Theatre Arts. Other thefts included four parking permits worth more than \$300 and a \$250 camera.

lege affairs, said that the State University of New York has indicated it will support Cornell's request.

Fawcett was reluctant to predict what may happen by the time the budget actually is adopted in six or seven months. He said that the state's fiscal prospects do not seem as volatile now as they were last year, but that the budget process would still be tight.

In another action, the Executive Committee approved traffic regulations, which it reviews annually. This fall there are some new campus parking arrangements, arrived at after discussions this summer involving a broad range of campus groups. The new arrangements are:

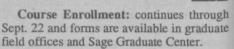
· All free lots will remain free for the 1989-90 year.

· Central-campus fees have been set at \$244, while fees for perimeter-zone lots and student fees will be \$150.

· The planned park-and-ride lot of more than 500 spaces is to be built in the East Hill Plaza area sometime in the fall.

-Sam Segal

Graduate Bulletin



Special Committee Selection and Change Form: Check with your field regarding number of faculty signatures; bring your completed form to Sage Graduate Center by Sept. 22.

Dissertation Deadline: Ph.D. candidates who have defended their dissertations and submitted two acceptable copies to the Graduate School by Sept. 22 will not be charged the \$200 active-file fee for fall

Course Changes: Deadline for changing grade options, credit hours, and dropping courses is Oct. 27. A \$10 late fee is charged for any change after this date.

Dissertation and Thesis Seminars: will be held in the Morison Seminar Room of Corson/Mudd Hall on Tuesday, Oct. 24, at 11:30 a.m. for doctoral dissertations and on Wednesday, Oct. 25, at 3 p.m. for master's theses. Faculty and typists are encouraged to attend.

Student Assembly: Petitions are due Sept. 15 for graduate seat on Assembly. Contact Office of the Assemblies, 165 Day Hall. Elections are Oct. 3.

OBITUARY

Edwin A. Burtt

Edwin A. Burtt, the Susan Linn Sage Professor Emeritus of Philosophy, died on Wednesday, Sept. 6, at his home on Willard Way. He was 96.

Though his long-time focus was on the history and philosophy of religion, Burtt's first scholarly recognition came as a result of his book "The Metaphysical Foundations of Modern Physical Science," first published in 1925 and considered a 20th century classic in the field.

After an active career as a teacher and scholar, Burtt continued to publish works for nearly three decades following his retirement from Cornell in 1960. He joined the Cornell faculty in 1932 and was named to the Sage Professorship in 1941.

At least six of his books are still in print. His books include "Types of Religious Philosophy," "Right Thinking," "Man Seeks the Divine," "In Search of Philosophic Understanding," and "The Human Journey," completed when he was 90 years old.

Burtt was an ardent admirer of all of the world's major religions. While a member of the Society of Friends, he also took vows as a Buddhist layman during a visit to India

On the walls of his second-floor study, where he continued to work almost daily until about a year ago, are pictures of friends and thinkers he admired and with whom he corresponded through the years. These included Gandhi, with whom he spoke the year he died, Dag Hammarskjold, Bertrand Russell, and poet Achibald McLeish, who was a classmate at Yale and a life-long friend.

In his last book, completed when he was 92, Burtt wrote that he was older than 80 when he realized he did not know how to live. The book takes the reader through Burtt's struggles with the question of how to live and concludes with: "May you be blessed as in your own way you search for 'Light, Love and Life,' " which is the title of the work.

Burtt also edited two anthologies, English Philosophers from Bacon to Mill" and "The Teachings of the Compassionate

He was born in Groton, Mass., the son and grandson of Baptist ministers. He lived for two years during his youth in China, where his father was a missionary.

He was educated at Yale University, Union Theological Seminary and Columbia University. He taught at Columbia and the University of Chicago before joining Cornell. He also was a visiting professor at Harvard, Stanford and the University of

He is survived by two daughters, Virginia Burtt of The Sea Ranch, Calif., and Winifred Brinster of Seattle.

A memorial service was conducted Sunday, Sept. 10, in the One World Room of Anabel Taylor Hall.

In his book "The Human Journey," Burtt

"The unit of survival is now mankind as a whole. There is no longer any plausibility in the tempting conceit that a world is possible in which the enemies we hate are destroyed while we and our children continue

- Martin B. Stiles

Theatrical festival will explore American culture

Thinking and talking about culture what it is and what it means in a country like the United States - will be a large component of the 10-day "American Festival" that will open at Cornell on Sunday,

In addition to five days and nights of performances in the Center for Theatre Arts, which begin in mid-week, numerous informal performances, workshops, lectures and round-table discussions are scheduled.

The festival calls itself "a celebration of heritage, community and the arts," but "celebration" doesn't quite cover it: The people involved in the project do not hesitate to point out social problems in America.

The demographics of American society have changed in our generation," Associate Professor Sally Banes and Theatre Arts Department Chairman Bruce Levitt wrote in an essay introducing the festival. "Vietnamese restaurants and Korean grocery stores are as ubiquitous in our big cities as Jewish delicatessens once were, and Spanish language television and radio stations serve Latino communities throughout the country."

Banes said recently that, "the point of the festival is to foster the natural process of exchange that goes on between cultures, to look at it consciously, to examine the traditions and heritages that cultures come from, and to challenge audiences to look at their own cultures.'

Exchange takes time. So the performers are prepared to discuss their work after their performances; in some cases faculty members will moderate these discussions. The artists also will give informal performances and workshops in the community public schools, the Senior Citizen's Council, Southside Community Center and with arts groups, among others.

On campus, they will meet with programs in American Indian studies, Africana studies, Hispanic-American studies, and Hillel, the Center for Jewish Living and others. And because this is an academic community, the coalition will do its "outreach" to the community of scholars by engaging in dialogues about art and culture.

A number of renown scholars will visit Cornell to take part in the humanities component of the festival. Altogether, nearly 50 artists and scholars will participate.

Among the questions that will be raised in seven round-table discussions are these: How do Americans deal with the fact that they want to celebrate their individual cultures and yet share a common culture? What is culture? How is it constructed, transmitted and received? Whom does it serve? What are cultural traditions? How are those traditions preserved, passed on and changed?

The first round-table discussion, "American Culture: Melting Pot or Gumbo," will be held on Wednesday, Sept. 20, from 4 to 6



Liz Lerman's choreography often involves older dancers. She has two companies based in Washington, D.C.: "Dance Exchange" and "Dancers of the Third Age," a senior troupe whose members range in age from 54 to 90. Lerman is bringing both groups to Ithaca to perform at the Center for Theatre Arts on Friday, Sept. 22, and Sunday, Sept. 24, and to take part in a variety of community-based activities, including work with the Senior Citizens' Council.

p.m. in the Film Forum at the Center for Theatre Arts and will be moderated by Tim Murray, associate professor of English at Cornell and former editor of the publication Theatre Journal. The others will be:

· "Whose Culture? Thoughts on Shaping Arts Policy in America," moderated by David Bathrick, professor of German studies and theatre arts at Cornell and editor of "New German Critique," on Thursday, Sept. 21, from 1 to 3:30 p.m. on the sixth floor of the Johnson Museum of Art, co-sponsored by the Cornell Council for the Creative and Performing Arts and the Johnson Museum. The panelists will examine who makes cultural policy within major institutions in America, who benefits from it and to what extent it reflects and respects the nation's

· "Overcoming Cultural Barriers: Rec-

ognizing and Celebrating Cultural Diversity in Rural New York," moderated by Mildred Warner, associate director of the Community and Rural Development Institute at Cornell, Thursday, Sept. 21, 4 to 6 p.m. in Room 101 of Bradfield Hall, co-sponsored by the Community and Rural Development Institute. This panel, which will include local leaders, will focus on ways to promote understanding and respect for cultural differences in rural New York.

· "Women in Performance," moderated by J. Ellen Gainor, assistant professor in the Theatre Arts Department, Thursday, Sept. 21, 4 to 6 p.m. in the Film Forum, an examination of how the perspective of gender shapes performance.

" 'New' Traditions: The Performance Paradigm," moderated by Sally Banes, associate professor of dance history and theatre

studies, on Friday, Sept. 22, 4 to 6 p.m., in the Film Forum, a look at how traditions are preserved, passed on and changed.

• "Local Traditions: Bringing It All Back Home," moderated by Joyce Ice, staff folklorist at the Delaware County Historical Association in Delhi, N.Y., on Saturday, Sept. 23, 10 a.m. to noon, in the Film Forum, a discussion of Ithaca area community traditions.

· "The Multicultural Paradigm," a lecture and performance by Guillermo Gomez-Pena, poet and scholar and member of Border Art Workshop/Taller de Arte Fronterizo, on Sunday, Sept. 24, 5:30 to 6:45 p.m., in the Film Forum.

For more information about specific programs, call 254-2759. For information about performances, call 254-2787

- Carole Stone

Sociologist asks Congress to strengthen rural programs

America's rural landscape is so diverse that the federal government should strengthen and redesign existing programs to better meet rural development needs in the 1990s, a Cornell rural sociologist told a congressional hearing on Sept. 11.

The government also should be flexible

in carrying out the programs to meet the local needs and conditions, because "one-sizefits-all policies are inconsistent with the diverse social, economic and environmental nature of rural America," argued David L. Brown, a professor of rural sociology and associate director of research for the Col-

lege of Agriculture and Life Sciences. He also is associate director of the Agricultural Experiment Station.

Brown stressed the need to beef up rural programs in testimony before the House Agriculture Subcommittee on Conservation, Credit and Rural Development, which is holding a series of hearings around the country to hear views on how to bolster rural economies and improve the quality of life for rural residents.

In his testimony, which was co-written with Mildred E. Warner, a research associate here, Brown cited housing and human services, education and job training, research and technical assistance, and community facilities as critical issues requiring additional federal funds.

He said that local leaders can benefit from increased access to research-based information and technical assistance. The applied research and extension programs conducted by land-grant universities, in collaboration with state and federal agencies, can focus on local governments' needs to enhance their ability to make informed decisions, he explained.

'Increased federal support of research and technical assistance will encourage universities to redirect more of their resources to rural development," he pointed out.

Brown noted that rural America has different problems in the 1980s than in the previous decades. For one thing, agriculture is no longer the principle employer of rural workers or the principle source of rural fam-

"Accordingly, agricultural policies and programs will not improve the material well-being of most rural people and fami-

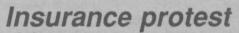
lies," he maintained. Moreover, if growth in rural population and employment was the dominant rural theme of the 1970s, economic stress has been the overriding rural issue of the 1980s, Brown said, adding that this stress is primarily associated with a restructuring of the rural economy and with increased urban-rural and global integration.

"Because rural areas have become more closely tied to national and international forces, changes in economic policies, increased international competition and other global forces now have major significance for rural economies and communities,"

The major issues confronting the rural Northeast include protecting the rural environment in an urbanized region, matching people and jobs in rapidly changing economy, enhancing services that contribute to the well-being of families and individuals, and maintaining community vitality, he pointed out.

"To achieve more effective rural participation in government programs, we must develop more flexible policies, encourage inter-local and regional cooperation, increase the use of technical assistance 'circuit riders,' support leadership education and require federal agencies to be more ag-gressive in serving rural communities," Brown emphasized.

-Yong H. Kim





David Lynch-Benjamin

Up to 150 graduate students rallied last Friday to protest the 60 percent increase this year in the cost of health insurance offered by the university. University officials say that the current policy was the only viable offer.

CALENDAR

All items for the calendar should be submitted (typewritten, double spaced) by campus mall, U.S. mall or in person to Joanne Hanavan, Chronicle Calendar, Cornell News Service, Village Green, 840 Hanshaw Road, Ithaca, NY 14850.

Notices should be sent to arrive 10 days prior to publication and should include the name and telephone number of a person who can be called if there are questions.

Notices should also include the subheading of the calendar in which the item should appear.

DANCE

Cornell International Folkdancers

All events are open to the Cornell Community and general public. Admission is free, unless stated otherwise. For further information, call 257-3156.

Instruction and requests, 7:30 to 10 p.m., Sept. 17, North Room, Willard Straight Hall. A business meeting will be held from 6:30 to 7:30 p.m.

A free nine-week series on basic folkdancing co-sponsored by the Cornell Wellness Program will be held Tuesdays, 7 to 9 p.m., through Nov. 7, in the Dance Studio, Helen Newman Hall. The polka will be taught Sept. 19. Other dances and steps will include the waltz, tango, hambo, schottische, buzz and pivot steps, Balkan line and circle dances and several set dances. For more information, call 273-0707 or 539-7335.

Israeli Folkdancing

Israeli folkdancing, Sept. 14, 8:30 p.m., Edwards Room, Anabel Taylor Hall.

EXHIBITS

Johnson Art Museum

The Herbert F. Johnson Museum of Art, on the corner of University and Central avenues, is open Tuesday through Sunday from 10 a.m. to 5 p.m. Admission is free. Telephone: 255-6464.

"Sticks: Historical and Contemporary Kentucky Canes," an exhibition on view through Oct. 15, explores the rich cultural heritage of Kentucky through the folk art of the cane. The walking sticks incorporate a range of images and a variety of political and social commentaries, including snakes, bird cages, lizards, Indians and wildcats, and some depict well-known historical and pop figures such as Abraham Lincoln and Elvis Presley. Held in conjunction with the American Festival, the exhibit is organized by the Center for Theatre Arts.

"The Art of Zen: Paintings and Calligraphy by Japanese Monks, 1600-1925," on view through Oct. 29, presents approximately 88 paintings and calligraphy by Japanese monk artists active from 1600 to 1925. This is the first large-scale study of this important art form, and the works are drawn from public and private collections throughout the United States, Europe and Japan. Stephen Addiss, curator of the exhibition and author of the book by the same title, will present an Artbreak on Sept. 17 at 2 p.m. Addiss will give a slide lecture about the exhibition, a brief tour of the show in the museum galleries and be available to answer questions. Artbreak is free to museum members; \$2.50 for nonmembers.

"Trinity," a sculpture by Stiles Thissell, is on view in the museum's Sculpture Court. The work, created in 1986, is composed of welded steel, painted white.

Hartell Gallery

Paintings by Pat Sutton, through Sept. 23. The gallery is in Sibley Dome and is open Monday through Friday, 8 a.m. to 5 p.m.

Olin and Uris Libraries

"A Celebration of Theatre," featuring costume sketches, stage act models and photographs from the Shaw Festival at Niagara-on-the-Lake, together with playbills, programs and rare works from Cornell Libraries collections, Monday through Friday, 8 a.m. to 5 p.m., through Oct. 4.

Tjaden Gallery

Exhibition of works by Maggie Sweney, through Sept. 15; exhibition of prints by students of Elisabeth Meyer, Sept. 17 through 22. The gallery is in Tjaden Hall.

FILMS

Films listed below are sponsored by Cornell Cinema unless otherwise noted. Most Cinema films cost \$3, except for weekend films in Uris and Statler, which are \$4, and are open to the public unless otherwise stated. An (*) means admission is charged.

Thursday, 9/14

"Twentieth Century" (1934), directed by Howard Hawks, with John Barrymore, Carole Lombard, Roscoe Karns and Walter Connolly, 7:30 p.m., Uris.

"Pather Panchail" (Son of the Road) (1958), directed by Satyajit Ray, Bengali dialogue/English subtitles, sponsored by the South Asia Film Series, 7:30 p.m., 310 Uris Library.

"Say Anything" (1989), directed by Cameron Crowe, with John Cusack, Ione Skye and John Mahoney, 9:30 p.m., Uris.*

Friday, 9/15

"Vampyr" (1931), directed by Carl-Theodor Dreyer, with Julian West, Sybille Schmitz and Maurice Schultz, 8 p.m., Anabel Taylor.*



Max von Sydow

"Pelle The Conqueror" (1988), directed and written by Bille August, with Max von Sydow, Pelle Hvenegaard and Erik Paaske, 6:30 p.m., Uris.*

"Say Anything," 9:40 p.m., Uris.*
"The Adventures of Baron Munchausen"

(1989), directed by Terry Gilliam, with John Neville, Eric Idle, Uma Thurman, Robin Williams and Sting, midnight, Uris.*

Saturday, 9/16

"Introduction" and "Shri Ram's Childhood & Education," parts one and two of the video saga "Ramayan," an Indian epic, co-sponsored by the South Asia Program and Cornell University Library, 1:30 p.m., 310 Uris Library.

"Pelle The Conqueror," 6:30 p.m., Uris.*

"Pelle The Conqueror," 6:30 p.m., Uris.*
"Heaven Can Wait" (1978) directed by Warren Beatty and Buck Henry, with Warren Beatty, Julie Christie and James Mason, 7:30 p.m., Anabel Taylor.*

"Heaven Can Wait," 9:45 p.m., Anabel Tay-

"Say Anything," 9:40 p.m., Uris.*

"The Adventures of Baron Munchausen," midnight, Uris.*

Sunday, 9/17

"Policing the Bedroom" (1987-88), with guest filmmaker Richard Kwietniowski, co-sponsored by CCPA, 2 p.m., Johnson Museum.

"Pather Panchail" (Son of the Road), sponsored by the South Asia Film Series, 3:30 p.m., 310 Uris Library.

"The Adventures of Baron Munchausen," 4:30 p.m., Uris.*

"If" (1969), directed by Lindsay Anderson, with Malcolm McDowell and Christine Noonan, 8 p.m., Uris.*

Monday, 9/18

"Waiting for Fidel" (1976), directed by Michael Rubbo, shown with "Marx For Beginners" (1978), directed by Bob Godfrey, co-sponsored by the Government Department, 7:30 p.m., Uris.*

"The Adventures of Baron Munchausen," 9:15 p.m., Uris.*

Tuesday, 9/19

"But I'll Always Continue to Write," and "Helping the People to Help Themselves," sponsored by Southeast Asia Program, 4:30 p.m., 310 Uris Library.

"Strangers and Kin: A History of the Hillbilly Image" (1984), presented by the Roadside Theater from Appalshop, directed by Herb E. Smith, with the Roadside Theater, 4:30 p.m., Uris.

with the Roadside Theater, 4:30 p.m., Uris.

"Mapantsula" (1988), directed by Oliver Schmitz, with Thomas Mogotlane, Marcel Van Heerden and Thembi Mtshali, 7 p.m., Uris.*

Heerden and Thembi Mtshali, 7 p.m., Uris.*

"Major League" (1989), directed by David Ward, with Tom Berenger, Charlie Sheen and Corbin Bernsen, 9:30 p.m., Uris.*

Wednesday, 9/20

"The Lady Eve" (1941), directed by Preston Sturges, with Barbara Stanwyck, Henry Fonda and Charles Coburn, co-sponsored by the English Department, 7 p.m., Uris.* "Major League," 9:30 p.m., Uris.*

Thursday, 9/21

"Horse" (1941), directed by Kajiro Yamamoto, with Hideko Takamine, Kamatari Jufiwara and Chieko Takehisa, 7:30 p.m., Uris.

"Two Daughters" (1961), directed by Satyajit Ray, Bengali dialogue/English subtitles, sponsored by the South Asia Film Series, 7:30 p.m., 310 Uris Library.

"Qeros: The Shape of Survival" (1979), directed by John Cohen, 8 p.m., Anabel Taylor Hall.

LECTURES

Agricultural Economics

"An Entrepreneurial Dream: A Lender's Bagel on Every Table," Murray Lender, former chairman, Lender's Bagel Bakery, Sept. 18, 4 p.m., 45 Warren Hall.

Hille

"Denominational Divorce," Paul Jeser, CLAL, Sept. 15, 8:30 p.m., Kosher Dining Hall. "The Ethics of Jewish Power," Paul Jeser, CLAL, Sept. 16, 4:30 p.m., Founders Room, Anabel Taylor Hall.

"Middle East Dialogue," Sept. 20, 7 p.m., auditorium, Anabel Taylor Hall.

MUSIC

Bound for Glory

As part of "An American Festival," the program will feature old-time music, Chicano music, American Indian and storytelling and will present three live sets in the Commons Coffeehouse, 8:30 p.m., 9:30 p.m. and 10:30 p.m. on Sept. 10. Bound for Glory can be heard Sundays from 8 to 11 p.m. on WVBR-FM, 93.5.

Cornell Concert Commission

"An Evening with Joe Jackson," Sept. 27, 8 p.m., Barton Hall. Tickets on sale at Willard Straight Hall Ticket Office, Rebop Records, Ithaca Compact Disc, Ticketron and Telecharge, are \$15.50 for the general public and \$12.50 for students (two tickets per Comell ID).

Department of Music

An in-formal concert of Musical Instrument Digital Interface with David Borden and his students, Sept. 15, 2:30 p.m., 304 Lincoln Hall.



Marina Gilman

"Women's Voices: Fantasies and Reality," will be performed by Marina Gilman, mezzosoprano, and Alan Giambattista, fortepiano and harpsichord, Sept. 15, 8:15 p.m., Barnes Hall. Included in the recital will be songs by Giacomo Rossini from "Regatta Veneziana," Joseph Haydn from "Arianna a Naxos," and Aaron Copland from "Twelve Poems by Emily Dickinson."

RELIGION

Sage Chapel

Beverly A. Tasy, assistant director, CURW, will deliver the sermon at Sage Chapel on Sept. 17. Services will begin at 11 a.m. Music will be provided by the Sage Chapel choir, under the direction of Donald R.M. Paterson. Sage is a non-sectarian chapel that fosters dialogue and exploration with and among the major faith traditions.

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Catholic

Mass: Saturdays 5 p.m., Anabel Taylor Auditorium.

Mass: Sundays 9:30 a.m., 11 a.m., 5 p.m., Anabel Taylor Auditorium.

Daily Masses, Monday through Friday, 12:20 p.m., Anabel Taylor Chapel.

Christian Science

Testimony Meeting: Thursdays, 7 p.m., Anabel Taylor Founders Room.

Episcopal (Anglican)

Sundays, 9:30 a.m., Anabel Taylor Chapel.

Friends (Quakers)

Sundays, 10:30 a.m., Hector Friends Meeting House, about one mile west of Route 96, on the Perry City Road. Rides leave Anabel Taylor parking lot at 10 a.m.

Jewish

Morning Minyan: Young Israel House, 106 West Ave. Call 272-5810.

Reform Services: Fridays at 6 p.m., Chapel, Anabel Taylor Hall.

Conservative/Egalitarian Services: Fridays at 6 p.m., Saturdays at 9:45 a.m., Founders Room, Anabel Taylor Hall.

Orthodox Shabbat Services: Fridays 6:15 p.m., Young Israel, 106 West Ave., Saturdays, 9:15 a.m., Edwards Room, Anabel Taylor Hall.

Korean Church

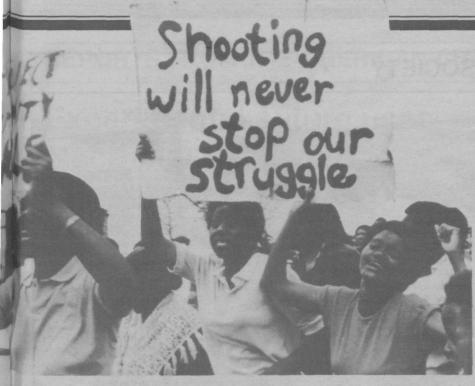
Sundays, 1 p.m., Anabel Taylor Chapel.

Muslim

Fridays, 1 p.m., Anabel Taylor Edwards Room.

Zen Buddhism

Zazen meditation: Thursdays at 5 p.m. in the chapel, Anabel Taylor Hall. For more information or to arrange beginner's instruction, telephone Jon Warland at 257-1404.



from "Mapantsula," a black South African production that was banned in 30 Africa, which will be shown on Tuesday, Sept. 19, at 7 p.m. in Uris Auditorium. Them tells the story of a small-time gangster in the middle of South Africa's of eruptions.

SMINARS

the Welfare Consequences of Political of ontana State University, Sept. 20, 3:45 , 001 Warren Hall.

Arled Mathematics

Pplication of Dynamic Programming to Proms of Optimal Habitat Choice and Optinaliming of Metamorphosis," Donald July University of British Columbia, Sept. 5, In., 322 Sage Hall.

hermal Emission Spectra of Mars (5.4 O.Sicrometers): Evidence for Sulfates, Carand Hydrates," Theodore Roush, As Ames Research Center, Sept. 14, 4:30 1 los Space Sciences Building.

Velotron Lines from Gamma-Ray Bursts and Ray Sources," Ira Wasserman, astronmy pt. 21, 4:30 p.m., 105 Space Sciences

helistry

Chinic chemistry seminar, "Selective Actilet lons," Helmut Schwarz, Technical Uniof Berlin, Sept. 18, 4:40 p.m., 119 ak Laboratory.

Octal chemistry colloquium, "Oxygen in Ligands with Electronic Properties Like less Dxide Surfaces," Wolfgang Klaui, Institute Anorganische Chemie, West Germany, 119 Baker Laboratory.

hinical Engineering

imulation of Chemical Processes with nown Parameters," Thomas F. Edgar, cal engineering, University of Texas, u. Sept. 19, 2:30 p.m., 165 Olin Hall.

cogy & Systematics

dalid "A Selection for Sex in a New Zeal-dalid" Curtis M. Lively, biology, Rutgers of Roy, Sept. 20, 4:30 p.m., Morison Semi-r Roy, A 106 Corson/Mudd Hall.

nvionmental Toxicology

dulation of Oncogenies and Anti-Oncowith Cell Growth and Differentiation, Anew pathology, Sept. 15, 12:20 p.m., 304

pilemiology

Status of Elementary School in New York State," Wendy Wolfe, sciences, Sept. 15, 12:20 p.m., 260

of Science

Chemist's View of Flavor," Thomas H. General Foods U.S.A., Sept. 19, 30 fm., 204 Stocking Hall.

eligics & Development

"Sidies of Resistance to Dinitroaniline des in Plants and Chlamydomonas rein-Donald Weeks, Zoecon Research In-Sandoz Corporation, Sept. 14, 3 p.m., nce Room, Biotechnology Building.

"Neurogenetics of Membrane Excitability in

Drosophila," Barry Ganetzky, genetics, University of Wisconsin, Madison, Sept. 18, 4 p.m.,

Conference Room, Biotechnology Building.

"Teshura: The Art of Repentance," Topics in Jewish Tradition, Sept. 18, 8 p.m., 314 Anabel Taylor Hall.

"Shattered Vessels: Heresy, Heretics and Jewish Tradition," Sept. 20, 8:30 p.m., G-34 Anabel Taylor Hall.

History & Philosophy of Science &

"How Diseases Come and Go: Using History to Popularize Medicine," Terra Ziporyn, writer, editor, historian, biomedical sciences, Sept. 20, 4:30 p.m., 110 Rockefeller Hall.

Industrial & Labor Relations

"The Political Aspects of Collective Bargaining in Sweden," Nils Elvander, University of Uppsala, Sweden, Sept. 14, 4 p.m., 216 Ives

International Nutrition

"Nutritional Surveillance in Costa Rica," Ligia Rodriguez, Ministry of Health, Costa Rica and nutritional sciences, Sept. 14, 12:40 p.m.,

Manufacturing Engineering

"Just-In-Time Total-Quality-Control Manufacturing," H.Simon, M. Howell, P. Miller, NCR, co-sponsored by the Comell Society of Engineers, Sept. 21, 4:30 p.m., B14 Hollister

Mechanical & Aerospace Engineering

"Comments on Some NASA Aerospace Problems and Programs," F.K. Moore, mechanical and aerospace engineering, Sept. 19, 4:30 p.m., 107 Upson Hall.

Mechanical & Aerospace Engineering Manufacturing Seminar

"The 'Moog Philosophy' - a Competitive Strategy for World Class Manufacturing," Richard Aubrecht, Moog, Sept. 14, 4:30 p.m., B14 Hollister Hall.

Neurobiology & Behavior

"Comparative Morphophysiology: Sex Differences in Vertebrate Brain and Behavior," Andrew Bass, neurobiology and behavior, Sept. 21, 12:30 p.m., Morison Seminar Room, Corson/ Mudd Hall.

Nutrition

"General Nutritional Status and Mortality in China," Dr. Qu Yingsheng, medicine, Tianjin Medical School, Tianjin, China, Sept. 18, 4:30 p.m., 100 Savage Hall.

Ornithology

"Feeder Watching: Can We Leam Anything from the Birds at our Feeders," Erica Dunn, co-ordinator, Project FeederWatch, Sept. 18, 7:45 p.m., Laboratory of Ornithology, 159 Sapsucker Woods Road.

Peace Studies Program

"Impressions and Predictions Resulting from Trips to Poland and Russia," Uri Orlov, co-sponsored by the Committee on Soviet Studies, Sept. 14, 12:15 p.m., G-08 Uris Hall.

Plant Pathology

"The Association of Venturia inaequalis Conidia with Apple Buds and Shoots," Chris Becker, Sept. 19, 4:30 p.m., 404 Plant Science

Poultry Biology

"Experiences from a Sabbatic in Iowa: Protein Synthesis and the Regulation of Gene Expression," Charles C. McCormick, poultry and avian sciences, Sept. 14, 4:30 p.m., 300 Rice Hall.

Science, Technology & Society

"Too Much Innovation: Problems of Housing Technology in Britain," David Collingridge, Technology Policy Unit, Aston University, Sept. 19, 12:15 p.m., 701 Clark Hall.

Society for the Humanities

"Bubbling Autographs: From Dechiricho to Gadda," Paolo Fabbri, University of Palermo, Sept. 14, 4:30 p.m., 22 Goldwin Smith Hall.

'Popular Violence in the French Revolution," Colin Lucas, Sr. Fellow, Society for the Humanities, Balliol College, Oxford, Sept. 20, 4:30 p.m., Kaufmann Auditorium, Goldwin Smith Hall.

"Social Mobility and Politics: Can Mobility Effects be Reviewed?" David Weakliem, sociology, Sept. 15, 3:30 p.m., 302 Uris Hall.

South Asia Program

"Hindu Fundamentalisms: From Vedic Truth to Hindu Nation," Daniel Gold, Asian studies, Sept. 20, 12:15 p.m., 153 Uris Hall.

Southeast Asia Program

"Language Contact in the Philippines," Der-Hwa Rau, teaching associate, modern languages and linguistics, Sept. 14, 12:20 p.m., 102 West

"Trees, Moneys, Rebels and Cronies: The Case of Cellophil Resources Corporation in the Philippines," Benjamin Bagadion, rural sociology, Sept. 21, 12:20 p.m., 102 West Avenue Ext.

Stability, Transition & Turbulence

"Search for Singularities in Three-Dimensional Euler Flows," Eric Siggia, physics, Sept. 19, 1 p.m., 203 Thurston Hall.

"Maximum Likelihood Variance Components Estimation for Binary Data," Charles McCulloch, biometrics unit, Sept. 20, 3:30 p.m., 100 Caldwell Hall.

Textiles & Apparel

"Stochastic Models for the Strength of Woven Fabrics: Yarn and Fabric Interactions,' Peter Schwartz, textiles and apparel, Sept. 14, 12:20 p.m., 317 Martha Van Rensselaer Hall.

Theoretical & Applied Mechanics

"Poincare, Celestial Mechanics, Dynamical Systems and 'Chaos,' "Philip Holmes, theoretical and applied mechanics, Sept. 20, 4:30 p.m., 205 Thurston Hall.

Veterinary Pathology

"Why Does the V-SRC Oncogene Transform Cells?" David Shalloway, pharmacological chemistry, University of California at San Francisco, Sept. 14, 12:30 p.m., Hagan Room, Schurman Hall.

Veterinary Physiology

"Production and Respiratory Dynamics of Bird Song: Contributions From Each Side of teh Syrinx, Roderick Suthers, medicine, Indiana University, Sept. 19, 4:30 p.m., G-3 Vet Research Tower.

SYMPOSIA

Cornell Law School

"In the Trenches for the Public Interest: A Job Symposium," Sept. 20, 4 p.m. in 290 Myron Taylor Hall. The speakers include Pam Gilbert, lobbyist, U.S. Public Interest Research Group; Doug Lasdon '81, executive director, Legal Action Center for the Homeless; Martha Roberts, supervising attorney, Legal Assistance of the Finger Lakes; and Eugene Eisner, partner, Eisner, Levy, Pollack and Ratner.

German Studies

'The Federal Republic of Germany, 1949-89; A Critical Review," Sept. 23 and 24. Most presentations will be held at the A.D. White House, 27 East Avenue. Topics and presenters include "The Federal Republic of Germany: In Search of a National Identity," Isabel Hull, history; "Dia-

logues with the Past and its Presences in Post-War Literature," Leonard Olschner, German studies; "Architecture in Germany - Post-War to Post-Modern," Christian Otto, architecture; and "The Women's Movement in the FRG," Biddy Martin, women's studies. For further information, call 255-5265.

September 14, 1989

Peace Studies Program

"Symposium on Recent Events in China," Vivienne Shue, moderator; Tom Lyons, economics, Cornell, and Greg DeLaurier, Ithaca College, panelists, Sept. 21, 12:15 p.m., G-08 Uris Hall.

THEATER

An American Festival

"A Traveling Jewish Theatre," a performance and discussion with playwright and actress Naomi Newman of A Traveling Jewish Theater and African-American performer Robbie McCauley, Sept. 20 and Sept. 21, 8:30 p.m., Class of '56 Flexible Theatre, Center for Theatre Arts.

"El Teatro de la Esperanza," Sept. 20 and Sept. 21, 8 p.m., Proscenium Theatre, Center for Theatre Arts.

MISC.

Alcoholics Anonymous

Meetings are open to the public and will be held Monday through Friday at 12:15 p.m. and Thursdays at 9:30 p.m. in Anabel Taylor Hall. For more information, call 273-1541.

Grad Group Brunch will be held Sept. 17 at 11 a.m., One World Room, Anabel Taylor Hall. Israeli Shaliach, Sept. 19, 10 a.m. to 3 p.m., call 255-4227 for appointment.

Olin Library Orientation Tours

Tours for faculty and graduate students to provide an introduction to Olin's services, facilities and resources will be offered Sept. 14 at 2 p.m. and Sept. 15 at 2 p.m. Tours last approximately 30 minutes and begin in the lobby across from the circulation desk.

Olin Library Research Seminars

Olin Library Reference Department will offer research seminars for faculty and graduate students in the humanities or the social sciences covering Olin's catalogs, COMPASS (computer assisted search service), subject search strategies, reference materials and interlibrary services, Sept. 21 at 3 p.m. and Sept. 27 at 1 p.m. To register and for more information, call 255-4144 or stop by the Olin Reference

Unions & Activities

The Potshop in Willard Straight Hall is offering classes for all skill levels. For more information, stop by in Willard Straight Hall or call 255-5170.

Lipman-Wulf exhibit through Oct. 11

Eleven works of art by Peter Lipman-Wulf will be on view at the Gallery of Art in the Dining Hall of the Center for Jewish Living through Oct. 11.

Lipman-Wulf, who fled his native Germany in 1933 when the Nazis came to power, moved to Paris and then Switzerland before settling in New York City. In 1937, he won a gold medal in the Exposition Mondiale in

The artist has had more than 50 one-man shows, and his work is exhibited in museums here and abroad, including the Metropolitan Museum of Art.

The pieces on display here include woodcuts, copper engravings, paintings, sketches and marble and bronze sculptures.

The center's dining hall is open daily. Visitors are especially welcome during mealtimes, from 7:30 to 10:30 a.m., 11:30 a.m. to 2:30 p.m. and from 5:30 to 8:30 p.m.

For more information, call the center at

REPORTS FROM THE AMERICAN CHEMICAL SOCIETY

Chemical-reaction theories may be wrong, professor says

Chemists' understanding of the twisting, jiggling contortions that molecules go through in chemical reactions may be seriously in error, according to a Cornell scientist. He says that current fundamental theories omit the role of the momentum of atoms in molecules as they swing about in the throes of a chemical reaction.

Revising the theories may result in simpler conceptual explanations of many chemical reactions. However, unless new theories can simplify the momentum effects, calculating the behavior of even one kind of molecule could require the equivalent of all the world's supercomputers operating for decades.

Barry Carpenter, a professor of chemistry, delivered a paper on his discoveries on Sept. 12 at the annual meeting of the American Chemical Society. He described detailed studies of chemical reactions that revealed serious flaws in current theories.

Theories explaining the mechanisms of chemical reactions are fundamental to chemical research. Although revising them would not have a large, immediate, practical impact, they do affect the overall progress of chemistry. Chemists use such theories to understand reactions that are important in almost every industry, including chemicals and petroleum.

In his research, Carpenter and his research group studied several "unimolecular" reactions, those in which a single molecule chemically transforms itself into one of two nearly identical product molecules when heat energy is added to it. The compounds he studies are complex organic molecules that undergo spontaneous reactions when heated.

One such molecule has the mouth-filling name of "2,3 diazabicyclo [2.2.1] hept-2-ene exo,exo-5,6-d₂." When heated, this "diazabicyclo" compound loses nitrogen and reforms itself into two other nearly identical compounds. To undergo the reaction, however, the compound must overcome an energy barrier, much as a roller coaster car must ascend a hill in order to start its ride.

Adding energy to such a molecule is like hauling the roller coaster car to the top of a hill. Then, just as a roller coaster car will speed downhill on its own, the molecule will use the added energy to transform itself into a lower-energy product. The energized molecule at the top of the energy hill is known as a "transition state."

In the molecules studied by Carpenter and his colleagues, the transition state leads to an intermediate which could yield two possible products, as if the top of the roller coaster were followed by a little dip from which there emerged two branches in the tracks leading to different places at the bottom of the run.

Current "statistical theories" of transition states hold that either of the "tracks" of a chemical reaction should be equally likely, because the energy of a molecule is spread throughout the vibrations and rotations of its chemical bonds. Thus, the two products of the reaction should be present in equal quantities.

Such theories also hold that "side reactions" are responsible for those cases in which there is a preponderance of one product over another. These side reactions are chemical mechanisms that offer other routes to the same product, like additional side tracks in a roller coaster that lead to one of the alternatives.

In his experiments, Carpenter and his group showed that such side reactions could not explain why, for the diazabicyclo molecule there resulted in five times the amount of one product over the other. The scientists found similar results for several other Specifically, he found that molecules. changing the temperature of the reaction did not affect the ratio of products. Because side reactions have their own energy barriers, changing the temperature should have affected how active the side reaction would The side reactions compete with the main reaction pathways, so changes in side reactions should affect the overall outcome of the system of reactions.

The geometric structure of Carpenter's test molecules allowed him to find out whether momentum had anything to do with the outcome of the reaction. The diazabicyclo molecule is a molecule with a ringlike structure of carbon. Part of this ring becomes "floppy" during its reaction, like one swinging door of a saloon.

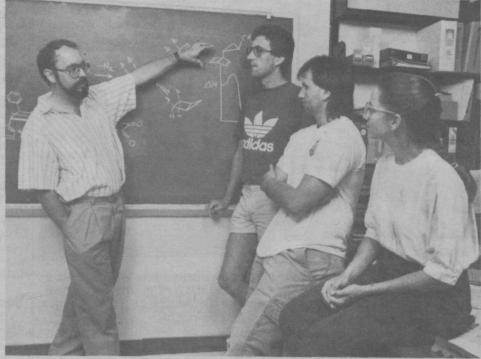
While the unreacted molecule has the "saloon-door" segment stuck one way — like a saloon door stuck open inward — the transition state has the segment in the closed position. The products can have the segment stuck in either the "opened inward" or "opened outward" position.

"opened outward" position.

What intrigued Carpenter was that the favored product compound — by a factor of five — was the form in the "opened outward" position. It was as if the swinging segment of the molecule conserved its momentum in reacting, its motion carrying it through the swing to the other position.

To further explore this possibility, Carpenter and his colleagues tested how the molecule would react in a liquid solvent, whose molecules might "cushion" the effect of the swing. The previous experiment had been done with the molecule evaporated as a gas and thus unaffected by surrounding molecules.

The chemists ran the reaction in two nearly identical solvents, one of whose molecules were more energy absorbent than



Don Albern

Professor Barry Carpenter and graduate students (from left) Joerg Pfeifer, Tom Peterson and Debbie Bebout talk about the potential errors in current theories of chemical reaction.

the other because of a slight difference in their atoms' arrangement.

"It's like surrounding the reaction with mattresses whose springs absorb energy and disturb the ballistics of the reaction," Carpenter explained.

The result was that both solvents cushioned the reaction, producing a more equal ratio of the two "swinging-door" molecules than five to one. But the more-energy-absorbing solvent made the products' ratios the closest to equality.

"I'm more than 90 percent sure that the statistical theories are wrong; but I'm less than 90 percent sure that our current view correctly explains what's going on," Carpenter said.

"The good news is that many reaction mechanisms in the literature may be simplified, because researchers have had to invoke competitive side reactions to explain the complicated energetics of the reactions," he

"The bad news, however, is that once we abandon the statistical theories, we're in trouble trying to come up with a workable quantitative theory of unimolecular reactions. We will have replaced transition state theory calculations that you could do on the back of an envelope with some that would take all the supercomputers in the world my whole lifetime to do."

Besides developing simplified, valid new theories, chemists also will have to determine where existing theories will remain serviceable. In a great many chemical reactions, such momentum effects may not be important, he said.

The Cornell researchers are continuing their work by synthesizing and experimenting with new versions of the molecules to fine-tune their understanding of the phenomenon

Carpenter's work is supported by Air Force Office of Scientific Research.

— Dennis Meredith

Scientists work toward 'ultimate photography'

Professor of Chemistry Jean Frechet and his fellow chemists at Cornell and International Business Machines Corp. are working toward improving the chemistry of what might be termed the ultimate photography. Called microlithography, the process is fundamental to producing the electronic chips in computers and electronic devices. The resulting images, produced on silicon chips inside complex chipmaking machines, are precise to millionths of a meter.

Frechet and his colleagues are working with "polymeric imaging systems," which are used to transfer intricate circuit patterns onto silicon chips and are fundamental to the production of all integrated circuits. The scientists aim at improving by 100-fold the speed of the microlithograph imaging process.

Microlithography consists basically of shining ultraviolet light through a photographic mask, or pattern, of the circuit and onto a silicon wafer coated with a chemical called a photoresist, which is an organic polymer. A polymer is a long chain of identical molecular units. Usually the photoresist consists of a mixture of polymer

with another added molecule that is sensitive to light and somehow alters the polymer.

Exposure to light may either change the polymer's solubility or break down its structure. The altered polymer then can be treated with solvents or heat to remove the unwanted material, revealing the precisely etched circuit pattern on the silicon. In a multitude of separate steps, deposition of various metals and other substances on the chip, as well as further etching, is used to build the myriad of transistors and other components that make up an integrated circuit

Frechet and his colleagues, who are working to improve the intricate chemistry of these photoresists, reported some of their latest work on Sept. 12, at the American Chemical Society meeting in Miami. Other team members include Cornell postdoctoral associates Harald Stover and Stephen Matuszczak, Cornell undergraduates Roger Chin and Kenneth Shimizu, IBM postdoctoral associate Bernd Reck and IBM Manager of Polymer Science and Technology C. Grant Wilson.

In their paper, "Acid-Catalyzed Rearrangement of Aromatic Ethers: Model Studies and Applications to Imaging," they reported studies of a polymeric system in which light exposure created an acid, which breaks down the polymer, allowing it to be evaporated by heating.

In contrast, today's most popular polymeric imaging system uses light to change the solubility of the polymeric system. Although the method of solvent treatment to remove material is adequate for today's microelectronic chips, it may not be precise enough for future, tinier microcircuits.

For example, the solvent can cause the remaining polymer to swell, distorting the pattern on the silicon chip. Also, the systems that use solvent are often not light-sensitive enough to be used in future microchips in which the light reaching the chip will be far less intense, said Frechet.

What's more, as the microchips shrink, chip makers will switch to other forms of radiation such as electron beams and X-rays to expose the photoresist because they can give finer patterns.

—Dennis Meredith

Vegetables continued from page 1

was found to be best for the desired enzymatic action. The results, after the vegetables were sterilized and canned, were dra-

• Chantenay carrots prepared with the modified technology were nearly twice as firm as those from conventional canning processes, an increase from 219 newtons — the force required to crush the pieces of vegetable in a testing machine — to 437 newtons. That is similar to fresh carrots that are lightly cooked in the kitchen.

 Cauliflower increased in firmness from 65 to 127 newtons, similar to lightly cooked fresh cauliflower. "That's without adding anything to the vegetables," Bourne said. "Everything is already there in the tissue."

Two additional processes produced even crisper vegetables, Bourne found. It was well known in the vegetable processing industry that lowering the pH by adding an acid such as citric acid permits a more gentle heat treatment during sterilization and results in a firmer-textured product. Also, the addition of small amounts of the essential nutrient calcium gives a firmer texture.

"We found that our modified technology is synergistic with calcium addition and

lowered pH. It's a case of two plus two plus two equalling 10," Bourne said. The modified technology, in combination with added calcium and lowered pH, produced these firmness values:

• Danvers carrots increased in crispness from 214 newtons with the conventional technology to 1.581

technology to 1,581.
• BBL47 green beans increased from 233 to 4,376 newtons.

• Cauliflower increased from 65 to 1,581 newtons.

"That's almost as firm and crisp as fresh,

uncooked produce," Bourne said. "We think the time will come when half the

items in the salad bar or the stir-fry pan in your favorite restaurant will come from tin cans instead of the refrigerator."

The Cornell food scientist said the increased holding time can be easily included in the commercial-food-processing line by dropping the blanched vegetables on a slow-moving conveyor belt on the way to the can-filling machine and sterilizer. But the lower blanching temperatures confront industry with what he called a second-generation problem that does not appear in his smaller-scale laboratory process: Thermophilic, or heat-loving, microorganisms, Continued on page 7

Experimental suture uses electricity to kill germs

An experimental surgical suture that uses a small, direct current of electricity to kill germs causes less inflammation in tissues than do commonly used synthetic sutures, a Cornell biomaterials expert has found.

His research provides a novel concept for designing future germicidal sutures and could aid their introduction to surgical practice, Chih-Chang Chu reported today at the American Chemical Society's meeting in

Nearly all surgery requires a suture, but the presence of a foreign material in the body — including sutures made of silk, catgut and even preferred synthetics such as Dacron and Teflon — causes an immunological reaction, making the surrounding tissues more susceptible to infection.

According to 1982 studies cited by Chu, an average of 8 percent of all surgeries are followed by a wound infection, and hospitalizations after surgery are prolonged by an average of 7.4 days because of such infection. On average, these extended hospital stays caused by wound infections cost \$839 in hospital fees alone, he said.

Because the majority of these infections occur along sutures, an ideal suture not only would close a wound but also be able to curtail potential wound infection.

"It is reasonable to expect that this antimicrobial suture will also be able to improve the healing rate of the wound that it closes because a similar phenomenon has been found in the healing of bones," Chu said in an interview. He is a polymer chemist and associate professor in the Department of Textiles and Apparel.

"It is a known fact that electricity will improve the rate of healing of bone fractures, so we can extrapolate from the healing of hard tissues to the healing of soft tissues and expect this as a byproduct of the new antimicrobial suture," he said.

This potential to enhance wound healing would be especially helpful in cases where wound-healing capability is impaired, such as organ transplants, and wounds resulting from stabbing or automobile accidents, where there is high risk of infection.

Rat gluteal muscle tissue exhibits a milder inflammatory reaction to the new antimicrobial suture than to a common synthetic (Nurolon from Ethicon) for up to 60 days after implantation, Chu reported.

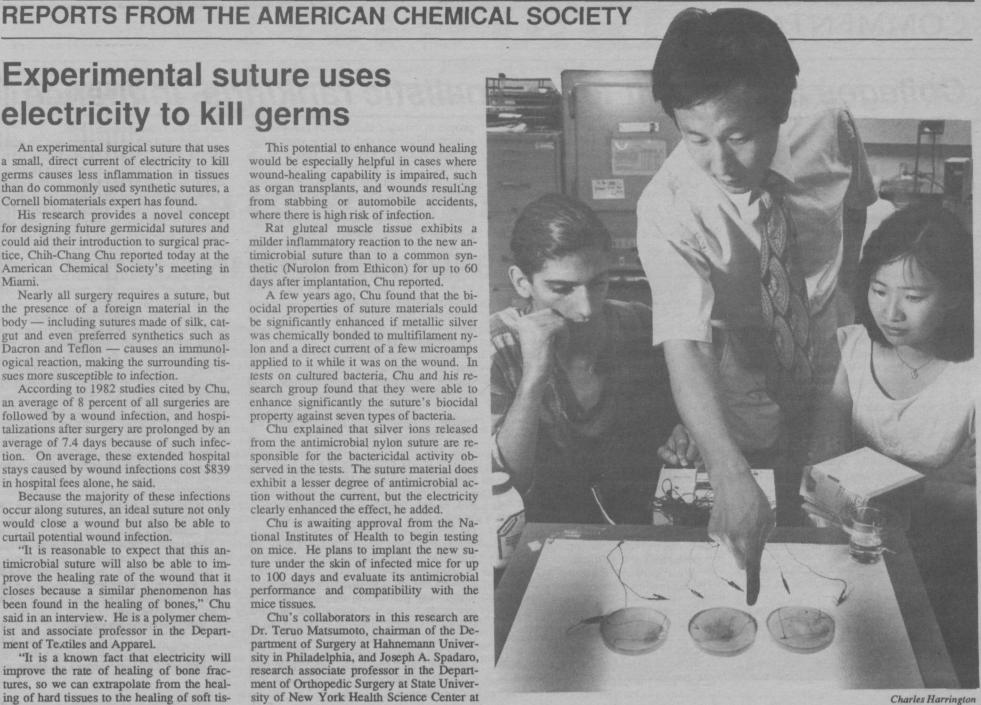
A few years ago, Chu found that the biocidal properties of suture materials could be significantly enhanced if metallic silver was chemically bonded to multifilament nylon and a direct current of a few microamps applied to it while it was on the wound. In tests on cultured bacteria, Chu and his research group found that they were able to enhance significantly the suture's biocidal property against seven types of bacteria.

Chu explained that silver ions released from the antimicrobial nylon suture are responsible for the bactericidal activity observed in the tests. The suture material does exhibit a lesser degree of antimicrobial action without the current, but the electricity clearly enhanced the effect, he added.

Chu is awaiting approval from the National Institutes of Health to begin testing on mice. He plans to implant the new suture under the skin of infected mice for up to 100 days and evaluate its antimicrobial performance and compatibility with the

Chu's collaborators in this research are Dr. Teruo Matsumoto, chairman of the Department of Surgery at Hahnemann University in Philadelphia, and Joseph A. Spadaro, research associate professor in the Department of Orthopedic Surgery at State University of New York Health Science Center at Syracuse.

-Carole Stone



Professor C.C. Chu discusses applying electricity to sutures with researcher Peter Chefalo (left) and graduate student Hui Ling Lin.

Meinwald receives Cope Award

Jerrold Meinwald, the Goldwin Smith Professor of Chemistry, was one of eight scientists to receive the Arthur C. Cope Scholar Award from the American Chemical Society (ACS) at the organization's meeting held in Miami Sept. 11 through 15.

The award was presented on Sept. 12 for "excellence in organic chemistry." It included a \$15,000 unrestricted research grant to be assigned by the recipient to any university or non-profit institution.

A member of the faculty since 1952 and a specialist in chemical ecology of plants and insects, Meinwald was cited by the society for his research on molecular rearrangement mechanisms in highly strained molecules and on the chemistry of natural products.

"His pioneering studies of insect and plant chemistry helped found the discipline of chemical ecology," according to the citation for the Cope Award.

The award is named for the late Massachusetts Institute of Technology professor of chemistry who was president of the ACS in 1961.



Jerrold Meinwald

Meinwald is an elected member of the National Academy of Sciences, the American Academy of Arts and Sciences and the American Philosophical Society. He received the Ernest Guenther Award from the ACS in 1984 and is slated to receive an honorary doctorate from Sweden's Goteborg University on Sept. 21 for his "outstanding contribution to chemical ecology."

-Roger Segelken

Vegetables continued from page 6

present in small quantities in vegetables before blanching and which thrive in temperatures around 150 degrees Fahrenheit, may reproduce in the huge blanching tanks used in commercial-food-processing plants.

Thermophilic microorganisms can produce gases and sour tastes in canned goods. Bourne explained that thermophilic microorganisms are not a problem in the laboratory, where blanching tanks operate for an hour or so before being emptied. Commercial blanching tanks are continuously operated for 20 to 24 hours at a time with successive loads of vegetables. Boiling temperatures currently used in commercial blanching tanks destroy the microorganisms but temperatures prescribed for crispier vegetables would not.

'It's a problem for the microbiologists," Bourne said, noting he is "fairly confident" the thermophilic microorganism problem in blanching water can be overcome in two to five years, perhaps by adjusting the pH in the blanching tank or cycling the water through high-temperature sterilizers.

'Consumers are demanding vegetables with a firm, crisp texture," the food scientist said. "For one thing, there's been a revolution in dental health."

-Roger Segelken

Crop management can help cut pesticide use, Pimentel says

Improved crop-management techniques would enable farmers to slash pesticide use by between 35 and 50 percent worldwide without reducing crop yields, a Cornell professor told a national conference of chemists

Asserting that "there is room for improvement in the judicious use of pesticides," entomologist David Pimentel advocated such techniques as crop rotations and using natural enemies to kill pests.

At the American Chemical Society meeting, he said that the 5 billion pounds of pesticides applied to crops worldwide each year not only remain on the crops and in the soil but also pollute water, sometimes harming people, animals and beneficial insects. Each year, there are an estimated 500,000 non-lethal human poisonings from pesticides worldwide — either during crop application or consumption of foods about 10,000 deaths, Pimentel reported.

He noted that Sweden and Denmark are aiming at a 50 percent reduction in pesticide use as a national policy and the Netherlands is about to follow.

Pimentel, who specializes in the relationship between insect control and the environment, also stressed in an interview before the meeting that, although pesticide use has increased more than 30-fold since 1945, crop losses also are growing, with as much as half the world's potential food supply being lost to pests such as insects, plant diseases and weeds. Farmers now lose 35 percent of their potential harvest to pests, and an additional 20 percent of the remaining harvest is lost to pests during the storage and distribution process before food reaches the table. His analysis is based on figures on world food supplies compiled by the U.S. Department of Agriculture and others.

"It's true, the plant pests are becoming tougher; 450 species of insects have evolved resistance to our insecticides, and weeds and plant pathogens have developed resistance, too," Pimentel said. "But the real reason for the rise in crop losses is the change in agricultural technology that encourages pest outbreaks."

The entomologist cited as one example a change in corn-growing practice in the United States that has turned corn fields into a heaven on Earth for insects. "American farmers used to practice 'corn rotation' by alternating, every other year, with some crop such as soybeans," Pimentel recalled.

At the same time, many U.S. farmers began practicing "no-till" agriculture, rather than completely plowing fields between each crop, Pimentel noted. That was to reduce erosion and save time. The combination of corn year after year in the same fields and undisturbed soils fostered the socalled corn rootworm complex and other pests. Corn rootworms live from one season to the next in the soil, eating plant roots and destroying crops.

"Replacing corn rotations with continuous corn culture and no-till has increased U.S. insecticide use in corn more than a thousand-fold. Corn losses to insects have more than tripled, from 3.5 percent in 1945 to 12 percent today," Pimentel told the chemical society meeting. The insect losses may be going unnoticed because corn crop yields are up, thanks to greater use of fertilizers and water, as well as high-yielding hybrid corn varieties, he noted.

The Cornell entomologist prescribed other choices in addition to crop rotations that are at least as effective as chemical pesticides for the control of some pests:

· Changing planting times. Pesticides need not be used on the Hessian fly, a destructive insect in wheat, for example, if that crop is planted after the fly has emerged and died off naturally.

· Increasing plant density. Planting more crop per acre can reduce consumption of crops by pests and result in a higher net

· Biological control. Parasites, predators and other natural enemies of plant pests can be used to kill them.

· Improving host plant resistance. Greater reliance on new crop varieties that enable the plants to resist insects and plant pathogens can reduce pesticide use.

-Roger Segelken

COMMENTARY

Colleges are at fault for journalistic rankings' influence

by James W. Schmotter

Excerpts from the Point of View feature of the Aug. 16 edition of the Chronicle of Higher Education.

What a difference a year makes. In October 1987, the Johnson Graduate School of Management at Cornell was rocked by a survey in U.S. News & World Report ranking the nation's business schools. To the consternation of all in Ithaca, the Johnson School did not even make the top 20. Thus began an academic year filled with recrimination and self-doubt, especially on the part of students and alumni. . . .

Then, in November 1988, another ranking of business schools appeared, this time in Business Week. Cornell's ranking was quite different; the Johnson School placed fifth nationally and even made the magazine's cover. Suddenly all was sweetness, light, and self-congratulation at the school. Everywhere, reprints of the Business Week article appeared; student and staff morale increased dramatically. Alumni congratulations (and contributions) flowed in, and applications for fall 1989 enrollment skyrocketed, rising more than 50 percent. . . .

This institutional manic-depressive behavior is a bit curious, for in fact an outside observer would be hard put to find any significant difference in the quality of the school's faculty, curriculum, or students in 1988 versus 1987, or versus 1986 or 1985

for that matter...

The wide credence paid to such rankings reflects more than a lack of institutional self-confidence. Rather it demonstrates that, for some constituents, rankings provide an important certification of educational quality, perhaps the most important one.

Many administrators and faculty members observe correctly that such rankings over-simplify the landscape of American higher education to the detriment of all parties involved. What they are less ready to admit is that they themselves bear considerable responsibility for this development.

The fact is that higher education itself has not been able to develop a means of evaluating and certifying quality that is either relevant or intelligible to those who invest in it through their tuition payments or gifts. Accreditation, an arcane and mysterious system to nearly all students and alumni, screens out only the most obviously deficient institutions. Faculty reputations are made within individual academic disciplines, and people outside these communities are ill suited to make judgments about quality and reputation. . . .

In the vocationally oriented 1980s, educational quality has come to be certified by those who employ our graduates; institutional success is measured by numbers of job offers and starting salaries. What this approach lacks, of course, is any coherent consideration of the real relationship between quality of education and job placement and any attention to the intellectual leadership that colleges and universities claim to exert in our society. Even the most cynical business-school placement officer will admit there is more to our mission than training corporate managers, and most potential employers would agree. All hope that we add more to our students' capabilities than would a corporate-training pro-

But in the absence of valid, agreed-upon indicators of quality, surveys like those in U.S. News & World Report and Business Week gain in importance. They, instead of

people in colleges and universities with the most sophisticated and accurate knowledge, become voices of authority. This is hardly surprising, since we on the nation's campuses have essentially abdicated any serious discussion of our enterprise with the outside world. Our efforts at communicating with the public have concentrated not on discussion, but on public-relations puffery.

American higher education may have failed to develop understandable measures of quality, but it has been successful in creating a public-relations machine that would make P.T. Barnum blush. To peruse college catalogues and fund-raising publications today is to expose oneself to truly embarrass-

ing levels of hyperbole. . .

Reversing this trend toward public-relations hyperbole will be difficult. But for starters, what about a return to some good old-fashioned academic elitism? There are a small handful of institutions secure enough to ignore press rankings; they deserve emulation. While not all of us can copy Harvard, most institutions do have pockets of true excellence of which we can, and should, be proud. Understanding these and sticking with our belief in them, regardless of the judgment of outside experts, seems a much saner approach than continuing to claim we are competitive in specific fields in which we are not. Today all American colleges and universities seem to be emulating the mission Ezra Cornell avowed for his university: an institution where "any person can find instruction in any study." I'm not sure if that mission applies to Cornell today, or even if it did in 1868 when the university opened. But I can safely say it doesn't characterize most institutions of higher education; they should stop trying to convince their various publics that they do everything equally well.

Policy makers on our campuses are reading the wrong chapters of marketing texts. Instead of focusing on advertising rhetoric, they should pay more attention to the development of proper market niches for their institutions. This takes courage; it may even mean admitting that some areas of study are less than excellent or are even expendable, as Washington University recently decided about its sociology department. Such tightening of institutional missions requires leadership from deans and presidents; more should accept the challenge.

Rather than railing at the ignorance exhibited in public rankings, faculty members might consider some activities to help explain their roles to the public — such as writing an occasional letter to the editor or an opinion article, or chatting with reporters about their research. Faculty members should understand that other audiences besides their academic colleagues can affect the quality of their professional lives. Communicating with more general audiences may be too important to be left totally in the hands of public-relations, development, and student-recruiting specialists. Who are better equipped to explain higher education to its publics than those whose activities are most central to its mission?

Developing clearer institutional goals and employing more honesty and accuracy in presenting them to the public are good ways to begin to reclaim the ground we in higher education have ceded to our colleagues in journalism. Perhaps, in the process, we can all raise our rankings.

James W. Schmotter is associate dean of the Johnson Graduate School of Management.

Plantations offers non-credit courses

Wheat weaving, woodcut carving, rock gardening and botanical illustration are among the topics of non-credit courses in the Cornell Plantations fall education program. All courses are open, for a fee, to members of Cornell Plantations and to the general public. For information on registering, call 255-3020.

• Foraging for wild mushrooms. Dr. Scott Camazine, a physician and graduate student in neurobiology and behavior, will teach the field characteristics of local edible and poisonous fungi on Saturdays, Sept. 16 and 23.

• Botanical illustration. Bente King, botanical illustrator at the Bailey Hortorium, will teach two courses: botanical illustration with mixed color media on Wednesdays, Sept. 20 and 27 and Oct. 4, 11 and 18; and botanical illustration using pen and ink on Tuesdays, Oct. 17, 24 and 31 and Nov. 7 and 14.

• Scandanavian holiday ornaments. Botanical illustrator King will teach a course on Scandinavian holiday ornaments on Wednesday, Dec. 6.

• Forest ecology. Michael DeMunn, forestry consultant with the Cayuga Land and Forest Consulting Co., will lead a course on forest ecology, on Saturdays, Sept. 30 and Oct. 7, 14 and 21.

• Dried-flower arranging. Debbie Malone, a floral designer and owner of

the Everlastings shop, will teach driedflower arranging on Tuesdays, Oct. 3 and 10.

• Cayuga Lake history. John Chiment, paleontologist and Cornell Plantations editor, will lead an interpretive tour of local history in a course on the history of Cayuga lake, on Saturday,

• Rock gardens. Beatrice Willard, author of "Land Above the Trees," and other rock garden experts will conduct a daylong course on building and planting rock gardens, on Saturday, Oct. 21.

• Wheat weaving, grapevine wreaths. Denise Jones, co-owner of the shop Nature's Creations, will teach the construction of fall decorations on Mondays, Oct. 23 and 30; Carol Howell, the shop's other co-owner, will teach a course on decorated grapevine wreaths, on Nov. 6, 8 and 9.

• Woodcuts. Olga Pastuchiv, a Berkshire artist, will teach the carving and printing techniques of woodcuts on Wednesdays, Oct. 25 and Nov. 1, and Saturdays, Oct. 28 and Nov. 4.

• Folk toys. Erica Jenkins, toymaker at Jenkins Woodworks, will teach the history and construction of traditional mountain folk toys in a session for adults Saturday, Nov. 11, and a separate session for children age 10 and up on Saturday, Nov. 18.

Family drops student-death lawsuit

The parents of a student killed in a Cornell dormitory almost six years ago dropped their negligence suit against the university on Sept. 12, after reaching a settlement in federal district court in Albany.

As part of a court-approved settlement, Cornell agreed to pay \$200,000 to the family of Erin Nieswand. There was, however, no finding of liability or negligence on Cor-

nell's part.

"Members of the Cornell community continue to share the sorrow and to regret the loss felt by the families of Erin Nieswand and her roommate, Yong H. Suh," said John F. Burness, vice president for university relations. "The court-approved settlement is consistent with the university's position since this tragedy occurred — there are no findings of liability or negligence of

any kind on the part of Cornell. But obviously this is not a case with any winners."

The victims' killer, Su Yong Kim, was captured the night of the murder and subsequently tried and convicted. He is now in jail for a term of 25 years to life.

The federal civil action alleged in effect that Cornell was negligent in allowing Kim to enter Low Rise Seven dormitory on the night of Dec. 17, 1983, and in not preventing his shooting to death of the roommates.

Cornell's position, according to Associate University Counsel Thomas Santoro, has been that its security procedures were sound, that Kim was known to students in the dorm and was well behaved, and that his rifle was not spotted until moments before he brandished it and shot Nieswand and Sub

'Green revolution' leader to lecture here

A world-renowned agricultural scientist who played a key role in bringing about the "Green Revolution" that prevented famine in Asia and in other parts of the world will give a seminar on "Thoughts on the Global Issues of Food, Populations and the Environment" on Wednesday, Sept. 20, at 4 p.m. in Room 135 of Emerson Hall.

Robert F. Chandler Jr., a former Cornell professor, served as the founding director of the International Rice Research Institute in the Philippines from 1959 to 1972. Under his direction, IRRI scientists developed new

high-yielding "miracle" rice varieties that have resulted in a 66 percent boost in rice production in Asia.

Chandler's many awards include the General Foods World Food Prize, which he received in 1988. The award is presented to an individual whose work has affected billions of people around the globe in curtailing hunger, according to Larry W. Zuidema, associate director of Cornell's International

Agriculture Program, the seminar sponsor. Chandler was a member of the faculty from 1935 to 1947.

Indian House continued from page 1

Frank Bonamie, one of four chiefs of the Cayuga Indians and one of 50 Iroquois Grand Council chiefs, said, "It's exciting to see that this strong program will get a house."

Bonamie, a business consultant who lives in Ithaca, began pressing Cornell almost 20 years ago to increase its recruitment of American Indians from the region. His efforts led to the committee whose recommendations, in turn, led to the AIP. With the addition of the program house, Cornell will have "even a better foothold for helping educate Indian kids and providing support to the reservations," he said.

The support is part of Cornell's mission

as the state's land-grant institution, LaFrance said. The program has focused on 19 American Indian communities from South Hampton on Long Island to Niagara Falls to the North Country near Plattsburg, and the most difficult challenge is helping these communities with long-range planning and integrating their traditional values with those of mainstream society, LaFrance added.

In seeking to balance integration with preservation of Indian culture, the entire AIP has followed a Board of Trustees policy statement first enunciated in 1975 and endorsed again in 1984. Cornell should prepare its students for an integrated, pluralistic

society where "various ethnic and racial groups preserve their separate identities, while learning, working and playing together," the statement said, adding:

"University policy should facilitate this integration in the campus community, at the same time recognizing the need and right of ethnic and racial minorities to maintain their separate identities."

Besides Language House, the other residential-house programs are Ecology House, the Holland International Living Center, Just About Music, the Living Learning Center, Risley Residential College, the Transfer Center and Ujamaa.

—Sam Segal

Cancer continued from page 1

statistically significant. DeCosse also observed that the higher the intake of dietary fat, the more rectal polyps that formed.

Previous epidemiological surveys and worldwide population studies have suggested that dietary fiber intake is associated with reduced colon-cancer risk, but DeCosse's study is the first to demonstrate the connection in such direct terms.

Joining DeCosse in his research were Helen H. Miller of New York-Cornell's Department of Social Work and Dr. Martin L. Lesser, assistant professor of biostatistics in the Department of Public Health at New York-Cornell.

—Jonathan Weil

Volume 10, Number 17

Thursday, September 14, 1989

Employee Spotlight on Dale Walter

By Kathleen O'Brien

A radio crackles to life as another problem or emergency arises and needs to be taken care of. A student has found that his room has not been prepared before his arrival. "Tell him to meet me at the front of the building," says our Employee Spotlight. "I'll take care of it."

Starting out as a custodian eleven years ago, then progressing to head custodian, assist supervisor, supervisor, and to his present job as manager of Housekeeping Services has prepared Dale Walter for any crisis, emergency, or problem.

Dale oversees housekeeping services for the entire West Campus area of over 1,800 students of which 70% are freshmen. His staff of 23 cleans the public areas and makes sure equipment is available for students to use to clean their own

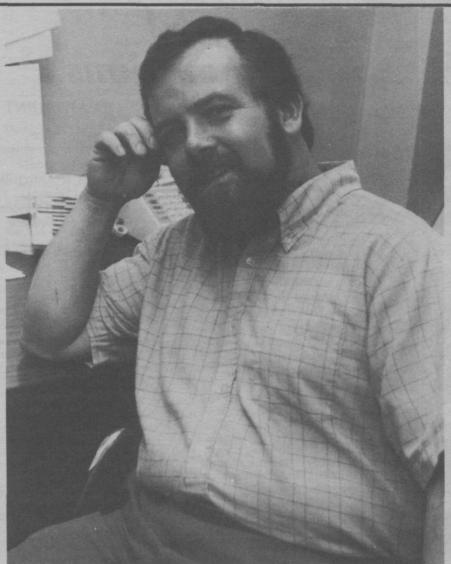
A break comes in the summer when housekeeping turns into the conference service staff with its own set of difficulties. Dale also is responsible for purchasing supplies and furnishing, training of staff, developing procedures to ensure things keep running smoothly, and to provide a clean, healthy, orderly environment for all individuals whether staff or student.

Although Dale has no formal degree, he has "loads" of supervisory experience. Dale has taken all the workshops he could fit into his schedule. "You need organizational skills, a sense of making everything balance at the end, and you must be a people person," Dale explained. "I am taking further coursework, both for use in my job and for personal gain and development.'

One last word? "Have determination, don't give up keep enriching yourself for job or personal development. Keep beating on doors. Be yourself!" Since Dale has gone from a custodial position to management, it looks like he has taken his own

Enthusiastic, concerned, determined and caring -- this Cornell is one of your employees!

Note to community: Networking needs your support, if you know of anyone who should be in the Employee Spotlight. please send their name, phone number, and a sentence or two explaining why they should be spotlighted to: Employee Spotlight, 134-A Plant Science Building. Thank you!



Dale Walter

Photo by Sigrid Petersor

Wellness Update: Alternatives to the Wellness Program

The following letter was sent to all the applicants who were not able to be accepted into the 1989-90 Wellness Program due to limited space. Wellness Director Toni McBride reminds you that there are many facilities and opportunities available to employees who are not in the program to exercise and stay fit.

Dear Wellness Applicant.

We regret to inform you that we were unable to admit you into the Wellness Program for the 1989-90 academic year. As you know we had room for 150 people and as of June 1, 1989 we had close to 500 applicants. We will keep your registration form on file in case of drop-outs or people who cannot be cleared for our program. At the present time we have not decided whether we will draw from this pool of applicants for next year's program or remarket. Look for more information on

this in our bimonthly column in Network-

Our program is only limited numberwise in the exercise testing area. Therefore, please feel free to take advantage of all of our educational programs we will be offering throughout the year. Some of the topics to be addressed will be our nutritional lectures on cholesterol and hypertension, practical healthy grocery shopping, stress management workshops, low back care and prevention clinics, and our allimportant humor workshops. Again, these seminars will be announced in Networking as to place and time.

You also have a few options to pursue if you are still interested in beginning an exercise program. First, purchasing a Teagle—Helen Newman Hall privilege card entitles you to lockeroom use, bas-

Continued on page 4

15th Annual Employee Day Set for October 7



Cornell employees and their families are invited to join in the fun of our 15th annual Employee Day on Saturday. October 7 and enjoy Big Red football and a great chicken barbecue.

Mark your calendars now for this special day and watch for your letter to arrive at your campus address this week which will fill you in on the details. Tickets will be sold at the Grumman Ticket Office from September 25 to October 4. Football tickets will be \$3.00 each and barbecue,

The Employee Day Committee hopes that you will make a special effort to join us on October 7 and be part of this fine Cornell tradition. Volunteers are needed to help set up for the dinner. All volunteers receive a complimentary barbecue ticket and a great big thank you; call Janet Beebe at 5-7565 to volunteer.



Recent Transfers Promotions

EMPLOYEE Charles Blake Lisa Bower Olive Brown Rachel Brown Janete Carvalho Holly Craft Helene Croft Melinda Cross Donna Decker Terri Denman Joanne DuBulay A. Dunford-Blodgett James Dunston Debra Dwyer Debra Ferguson Kathy Fisher Gloria Fulton June Gee Anne Gockel Nancy Goody Constance Gordon Shirley Grant Sharon Greene Colleen Hansel Terry Hollenbec Michael hornick David Horrocks Gloria Howell Shu-Hui Huang Molly Katsoulis Bryn Kehrli R. Kenworthy Rosemary Lacey Caroline Lampiast Leone LaMontain Barbara Lauber Robert Locke Constance Mabry Daniel Malone Desne Murdoch Kimberli Muzzy **Donald Myers** Janet Newport Theresa Norman Cheryl Pai Kenneth Pendell Deborah Reyna Kay Rice Kenneth Ridley Rose Sagan M. Schimizzi-Cady Deana Scott John Sheevers Mildred Sherwood Anne Sieverding Sandra Sill Robert Skinner Barbara Skoblick Elaine Spirawk Helen Steh Mary A. Stilwell Diane Terry Cheryl Thompson Carol Uber Paula Utter John Ullberg Edward Vance Todd Vanorman Barbara Vasteno Gaylord Veit Maureen Viele David Wakoff Sharon Wargo F. Kaye Westfall Betty Wilen Gerard Wilmarth Veronica Zielinski

DEPARTMENT

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EAP Advice on Rec Substance Abuse in

Any person, young or old, male or female, can have a problem with abusing substances. These substances can include prescription drugs, cocaine, alcohol, marijuana, or any other drug or combination of drugs which can negatively affect the employee.

When a person abuses a substance, the costs to the employer are very high. Behavior at work may affect the safety, productivity and the attitudes of the worker. In their personal lives, people have lost

families, violence increases, legal and financial problems are common. Coworkers are sometimes put in unpleasant or

even dangerous situations

Behaviors exhibited at can sometimes signal a st problem. These include or off the job; a decrease job performance; abrupt havior or personality; and hygiene or appearance.

In order to keep your w healthy and efficient, it is learn as much as possible of substance abuse, to not cating there may be a pro seek help from profession alcohol and-or substance

Fathers' Changing B

The father's role in many of today's families has changed dramatically and these changes reflect his increased participation in many aspects of daily family functioning.

Traditional stereotypes of fatherhood are gradually breaking down as contemporary families adjust to the hectic schedules of two working parents, or to the changes associated with living in a stepfamily or single-parent household. With increasing frequency, men are participating in the daily tasks connected with caring for and nurturing their children.

The image of the distant, awkward father is being replaced by one which reflects more active involvement and a greater sense of competence. A growing number of men are experiencing the joys and challenges of parenting young children in a direct and daily type of father is a growing generation has included n maintained a high level of with their children.

Men are witnessing af in many of their children "firsts," such as the first over in the crib or watch ky steps of walking. The volved fathers are experi quality interactions with during which an intimat who that child is can be

Fathers are increasing more in touch with the dai parenting as well. Dads af pressing work schedules with sick children. Father very familiar with the "sto

Balancing Work and

By Theresa Vander Horn

It's a new age, that's for sure. When I get together with my women friends, it's not recipes we're discussing. Day care and politics; motherhood and technology; parents' rights in the workplace; and the 'Mommy Track," are among the topics on women's minds today. But more than any other topic, how we manage working full-time and parenting full-time dominates the conversations

In a recent workshop, I learned of some useful tips to balancing work and family. I have combined them with some of my own, some I've read about, and some I've heard from my friends on the Committee on Children. Work and Family. Not every tip works for everyone and this list is by no means exhaustive; indeed, it is only a start.

- Consider spending the first fifteen minutes home from work in quiet, close interaction with the children. Child-care experts call this "transition time," and say it allows a child to make a smooth transition from day care to home. The hustle-bustle of getting in, getting the mail, and starting the meal can be overwhelming for a child and can lead to whining and fussiness all evening. Fifteen minutes of cuddling and quiet conversation spent right at the start can get you hours of peaceful play afterward. The time is typically spent talking about the events of the day, or cuddling, or nursing. Take a deep breath, let everything wait. and relax...

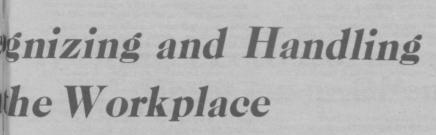
dren. Putting children 10 apart allows you the opport a good-night chat with ed he-she drifts off to sleep bed can be especially he to clarify anything confu ing that occurred during providing a better night

- Get up one half houl morning to spend time child. When you have tw dren, it's hard to find tim with each. Getting up a li or read works especially young child who wakes t of energy. Exchange one night-time chores with y you can get to bed a little

- Consider investing in over or dishwasher, finan Some people consider the pensable time-savers that time for interaction with time to pick up used appl is when the students leav

Establish a weekend l other parents. A play grot each week from one parer next gives the kids a chal some different toys in a di ment. At-home moms esp their kids appreciate the ronment.

- Consider your require care in relation to your h



rkplace ce-abuse eeism, on isfactory ses in bepersonal

place safe. Portant to All the effect Signals indiand to the field of Treatment can enable people to stop the abuse before it ruins their lives. It helps people protect their health and safety and makes it possibly to restore family relationships.

Assistance for substance abusers and for the people who may be affected by their behavior, can be found through EAP twelve-step programs such as Alcoholics Anonymous, Al Anon, Narcotics Anonymous, or NAR-Anon, the Alcoholism-Council, Alpha House or any other treatment professional or facility.

It is sometimes difficult to decide if you or someone close to you has a problem

with substances. Answer these three questions honestly:

questions honestly:
- Does the use of any substance abuse

interfere with your quality of life?
- Are persons close to you telling you that your behavior related to use of drugs or alcohol is not okay?

- Is using substances more becoming less enjoyable?

If you answered Yes to any of these questions, you need to check it out with a professional person.

If you have any questions about substance abuse, or have any other concerns, please contact the Employee Assistance Program (273-1129).

le in Today's Society

While this up, every who have olvement

ticipating cial she rolls is first shaghly inng regular, rehildren

owledge of hed. coming hallenges of carranging day home te becoming stop" frustration: very few tasks at home are ever completed without interruption, so that only some of the dishes, or some of the laundry, or some of the shopping gets done before a teetering toddler needs to be rescued from a fall, or fed, or changed, or all of the above!

An increasing number of fathers know all too well the feeling that there just are not enough hours in a day to adequately address work and family responsibilities.

Father-child bonds are strengthened when consistent time is spent with each other. Quality of interactional time is not nearly as important as ensuring that a child can expect to see Dad at certain regular times.

Exhausted fathers returning from work or picking children up for scheduled visitation are turning on the television

less and bringing out the board games and camping equipment more. Even brief yet consistent interactions (rituals), such as saying "good-night" to a child or sharing a meal, will sustain a continuity for family closeness.

The male stereotype dictates that increased self-esteem comes from feelings of success in the world of work through the role of achiever or producer and a growing number of men are finding that positive feelings about themselves can emerge from the world of children through the role of actively involved father.

If you have ongoing concerns related to parenting or any other personal or work related issues, the EAP can help. Please call us at 273-1129.

amily: Collected Recipes

ment. If your of gram filled with and sprawling need elaborate Likewise, if your frighten-day, thus ment. If your of gram filled with and sprawling need elaborate Likewise, if you it it is and facility require the same care.

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ment. If your child is in a day-care program filled with stimulating activities and sprawling grounds, you may not need elaborate space or facilities at home. Likewise, if you have ample space, activities and facilities at home, you may not require the same environment at day

Feel free to continue nursing. Some new mothers feel they must stop breast-feeding when they return to work. This is not so. Nursing can be continued for the morning, evening and night feedings as long as you like. Lunchtime nursing can be accommodated in some situations if the baby's care provider is close by and if you can arrange extra time at lunch. Some nursing mothers say that the intense and close contact involved in nursing greatly improves the transition time from day care to home at the end of the day.

- Find time for your spouse. Many people feel that a strong and loving relationship is as important for the children as it is for the marriage (and yet there are ample reports of marital stress during child rearing). Parents provide the children with their first impressions of a couples relationsh.p. A number of people expressed the feeling that a strong marriage is well worth the investment of time and energy. Kind words, understanding, and mutual support, benefit the marriage and the children.

- Choose peace over production. If the

stress or tension of getting something done is creating aggravation and anger, set it aside. What's the point of having a nicely prepared meal, or a spotless house, if everyone is angry? What gets done is sometimes not as important as keeping the peace, the peace that makes a household a home.

- Speak with your supervisor regarding flexible or reduced hours. Nationally and locally women at all levels are calling for more part-time employment opportunities. While the part-time market continues to develop (and we continue to rely on a full-time paycheck), flextime or reduced hours can go a long way in helping to balance work and family demands. Consider the needs of your office and your coworkers, and then make an appointment to speak with your supervisor if you are interested in flextime or reduced hours.

Free yourself of guilt. The shape of families is changing. Only some 10% of American families fit into the Stay-athome Mom and One-wage-earner Dad model of the 1950's. For economic or personal reasons, more mothers of young children are working outside the home and more parents are single parents. These changes require some adjustments in how things (or if things) get done in the home. Approaches to meal preparation. housework, errands, etc. have to be looked at in a new light. Consider this an opportunity to redefine a way of parenting that works for you -- even it it's not the way mom did it.

CRC News

Did you know that, for a small additional fee, anyone is eligible to join CRC on our trips? So come on, join us soon for one of our new and exciting trips planned for this fall. You'll be glad that you did. Call the CRC Office at 5-7565.

It's easy to become a member of CRC.

Here's what's happening this fall at CRC:

Mystery Trip: September 23
Have you ever sat up late reading a
book because you had to find out what
happened? Have you ever taken a risk or
accepted a dare -- without knowing all the
consequences? Do you always wonder
what lies beyond that sign "Do Not
Open?" Are you at your happiest when
giving or receiving a surprise?

Employee Day: October 7
Anyone wishing to volunteer to help at the Employee Day football game, please contact Janet Beebe at 5-7565. We need many male volunteers to help set up on Saturday morning. Also needed are peo-

ple to serve and clean up. Pork Roast: October 14

Delicious roast pork cooked to perfection by the Pendleton Brothers. Who can resist the temptation? For only \$5.00 per person you can enjoy a relaxing day at the CRC Park. \$2.00 for a beer or soda ticket. Ice tea and lemonade will be furnished. Please bring a dish to pass. Call Janet for your tickets.

Buffalo Bills vs New York Jets: October 22

Let's go Buffalo! Or are you, per chance, a Jets' fan? For only \$43.00 you can root for your favorite team. Reserve your space today. Final payment is due on October 13.

Beck's Grove Dinner Theatre: November 4

Join Suzanne Sager and gang for a funfilled day in the Rome area. First stop will be at the Oneida Silver Factory. After lunch. (on your own) the group will continue on to the Music Museum. This museum has restored antique musical instruments that you may touch -- even give a concert. On to Beck's Grove where the group will enjoy a leisurely dinner and watch the comedy "Who killed Howard Johnson?" The bus will leave at 9:00am, returning to Ithaca around midnight. The price is only \$38.00 per person.

Ice Capades 50th Anniversary: November 12

You won't want to miss this year's special 50th Anniversary celebration of the Ice Capades. Special guests this year are Barbie and Ninetendo's Mario Brothers. For only \$18.50 you can be part of this celebration. We will be attending the 1:00pm performance at the War Memorial.

Holiday Dinner Dance: December 9 CRC's annual holiday dinner dance will be held at TC3 on Saturday, December 9, 1989. Enjoy the sounds of "The Singing Machine." Time and price to be announced soon.

Rose Bowl Parade and Hawaii: December 30

Don't miss this once in a lifetime chance to see the Rose Bowl Parade in person. Spend three nights in LA. tour the city. Universal Studios and New Years Eve Banquet. You may choose only to go the Rose Bowl. There are three options for the ever beautiful Hawaii. Prices start at only \$1,095 per person.

Call Janet Beebe for more information on this trip.



Unclassified

1. Please send all unclassified ads through Campus Mail ONLY to Networking Unclassifieds, Humphreys Service Building, (hand delivered ads will be omitted) - no phon

2. For our information your name and campus phone umber MUST be submitted with ads, otherwise your ad will be omitted.

3. All unclassified ads are free of charge to Cornell faculty, staff and students and will be printed in the order received as space permits.

Please limit your ad to 30 words or less. Any ad longer than 30 words may be shortened by the Networking staff.
 Unclassified ads are for nonbusiness purposes only.

6. If an error appears in your ad, please resubmit the ad to be published in next available Networking,
7. Please submit an ad for each issue that the ad should

appear in.

FOR SALE

By William Herman

bership has been discussed.

tions of a university-funded

of the community.

expertise in this area.

serving the present employee

Blood Pressure

tember

12 noon

205 - 1:30-3:30pm

brary - 1:30-3:30pm

8:30am-12 noon & 1-3pm

1987 25' Sea Ray Sundancer, exc cond, with or without EZloader trailer, can be seen at slip .67. Allan H. Treman State Marina or call 539-6304 eves.

1987 Pontiac Sunbird SE, 27k miles, 2 dr. dark gray automatic. 4 cyl, fuel inj, AC, PS, PB, PW, AM-FM cassette and more, exc cond, asking \$6,600. Chad 5-5109.

At the past several meetings of the Em-

Force to define what an employee newspaper is and to review existing policies,

editorial procedures, and board mem-

professional), as well as the legal obliga-

newspaper. Lastly, we decided to recom-

procedures that will respond to the needs

We are now seeking the cooperation

and assistance of the community served

the present employee newspaper (Networking) in volunteering to serve on such a task force. Please, do not shy away be-

cause you feel you have no experience or

newspaper do have such experience,

much of the work is done by volunteers

Clinics for September

Open Blood Pressure Clinics for Sep-

September 14 - Bard Lounge, 9:00am-

September 14 - Rice-Bruckner, Room

September 22 - Day Hall, Board Room -

September 28 - A.D. White House Li-

September 19 - Clark, Room E18 -

While it is true that some of the staff

mend changes to existing policies and

Also discussed was the need to identify

ployee Assembly, the idea of a Task

staffing needs (both volunteer and

1985 Chevrolet Van (G-30), 8600 GVW, 5.7L (350 ci) V $8,\,automatic,\,locking$ differential, 33 gal fuel tank, 33.9332 miles. Allen Snyder 253-3482.

cond, 83k, \$3,200 OBO: 1973 Pontiac Grand Am. AT. PS. PB. AC. no winters, very good cond. 59k, \$1,800 OBO. 564-

runs good, \$1,250, 533-7725

1972 GMC pick-up rack back 350 V-8, 4 spd. 4 bbl. heavy 1-2 ton, runs strong, \$600 neg. Chris 253-3314. 1972 Chevy C-10 deluxe pickup, 134k miles. 400 hp engine with 4 barrel carb, with camping cap, wood cabinets, closet, trailer hitch, runs great, \$500 OBO. 277-

USA Fender Stratacaster elec guitar, mint cond, very attractive, black and white with maple neck, comes with top-of-the-line red velvet-lined case, \$500 firm. Mark 533-

4576 eves.
Lifecycle model 6000, \$800: Singer Touch and Sew II
with cabinet, \$150: Yamaha FG-110 guitar, \$50. 257-0115

14 ft. aluminum flat bottom boat with 15 HP motor and tilt bed trailer. \$600 OBO. Craig 5-5174 or 315-364-7585. Good quality mobile home with many appliances, patio and awning set up in Parkwood Village, low expenses. \$8,400. 257-4391 or 5-7946.

Snow tires, Dunlop, P17580 R13, very good cond. mounted on wheels, \$55 pair. 387-9619 after 6pm.

55 gallon used wood barrels, whole \$9, half \$5 each. 387-9619 after 6pm.

One 7 ft long low-backed brown couch, \$65; one twinsized mattress, \$35. Kathryn 5-9727 or 277-6331. Ohio pet dog food, 26% protein, 50lbs, \$13. Mark Fabrizi

5-4262 days or 546-8561 eves after 5pm New cubic refrigerator, 1 1-2 ft square with ice cube freezer, good for dorm, office or show, \$80, 257-1757.

Gold stamping Kinsley machine for imprinting on albums, certificates, photos, books, hand operated, portable, automatic foil feed, dozen rolls of gold foil included, used once, best offer, 257-1757.

Dining room set, solid wood, about 30 yrs old, very good

cond, includes breakfront, six chairs with upholstered seats, table with extension leafs, \$950, 273-2065. Items new cond: Bentwood rocker, \$30; rowing

maching. \$30: ice cream maker. \$10: items good and sturyd: gold wing-back sofa, \$100: tan leather lounge chair, \$40: space-saver stereo cart on wheels, \$10: pedestal

gas grill, \$10: large BBQ grill with cover. \$10: umbrella stroller, \$10. Jackie 5-4547 days or 533-4576 eves.
Tandy computer, 640k, hard and two floppy drives. colored monitor, keyboard, desktop (word processing, spreadsheet, address book, calendar, draw, music, PC link, alarm, game), hardly used. Kathy 5-0785.

Brass headboard win \$25: twin mattresses, like new.

Brass headboard, twin, \$25: twin mattresses, like new \$100: lawn mower, reel type, \$10: full-length suede coat fur collar, size 10, worn twice, \$50. Jane 5-7398 days or 272-5184 eves

Four yr General Elec upright freezer, good cond, works great, \$200. Dawn 253-3062 eves or 589-6827 after 5pm. Kenmore heavy duty automatic washer, exc cond, 24"x26", asking \$150, 273-7968 anytime. Digital PRO350 computer with two 400k disk drives, 10

MB hard disk, monitor and printer with all programs (DBase, word processing, RS1, etc), \$1,000 OBO. Joe Navaie 5-2063.

Ladies' sz 7 1-2 Nike Air Pegasus running shoes. men's size 7 Reebok hi-top basketball shoes, both hardly used. exc cond. selling because too small. Felicity 347-4580 eves

or 5-4004 days.

Must sell a telex 6120 tape duplicating system. includes Salve unit (make few copies at time), cassette master (make three copies and has one master slot), reel to reel master (6120m). System in good cond. Also included are technical manual and operating manuals. Dominga Batista 5-0704 Batista, 5-0704.

36" therma-tru insulated exterior door, pre-hung, new cond, \$150; used clapboard, painted white, various lengths. 347-4858 eves.

Hide-a-bed (sofa bed), earth tones-natural colors, exc cond, like new, modern style. Must sell 257-6910 eves.

Milking goats, very reasonable. Tom 659-5009. 3 bdrm. 0.6 acre fenced yard, big eat-in kitchen-DR family room, living room, stoarage rooms (lots of storage), 1-2 car garage (fits 2 cars) with attic, shed, \$54k, 5-5908 or 844-4094 eves.

CARPOOL

Need ride from Cortland to CU at Uris Hall Monday through Friday. 8am-4:30pm. 5-6372 work or 753-1773

AEROBICS

Early bird aerobics Instructor: Dr. Anne Wrona September 11-December 8, 1989. Helen Newman Dance Studio, 6:30-7:30am, M-W-F

Fee: \$76 (38 classes)
Contact Person: Debbie Gatch. 5-5133. Helen Newman Hall, Main Office

all, Main Office
Employee noon hour aerobics
Instructor: Amy Brill
September 11-December 8, 1989. Helen Newman
ymnasium, 12-1pm. M-W-F
Fee: \$76 (38 classes) fee must be paid at the first class or

Contact Person: Debbie Gatch, 5-5133, Helen Newman Hall, Main Office

Employee Calendar

Thursday, September 14. Blood pressure screening, Bard Lounge, 9:00am-12

Thursday, September 14. Blood pressure screening, Rice-Bruckner, Room 205 - 1:30-3:30pm

Tuesday, September 19. Blood pressure screening, Clark, Room E18

8:30am-12 noon & 1-3pm Friday, September 22. Blood pressure

screening, Day Hall, Board Room - 9am-Saturday, September 23. CRC Mystery Trip, call the CRC Office, 5-7565, for in-

formation. Thursday, September 28. Blood pressure screening, A.D. White House Library

1:30-3:30pm Saturday, October 7. Employee Day, anyone wishing to volunteer please con-

tact Janet Beebe at 5-7565. Saturday, October 14. Pork Roast at CRC Park, only \$5 per person; \$2 for a beer or soda ticket. Ice tea and lemonade

will be furnished. Please bring a dish to pass. Call Janet, 5-7565, for your tickets. Sunday, October 22. Buffalo Bills vs. New York Jets, \$43 reserves your space

today. Final payment is due to CRC Office on October 13. Saturday, November 4. Beck's Grove Dinner Theatre, bus leaves at 9am, re-

turning to Ithaca around midnight, \$38 per person. Call CRC Office for more information. Sunday, November 12. Ice Capades

50th Anniversary with special guests Barbie and Ninetendo's Mario Brothers. \$18.50 at the War Memorial. Contact Janet at the CRC Office.

Saturday, December 9. CRC's annual holiday dinner dance at TC? Time and price to be announced so

Saturday, December 30 rade and Hawaii. There ar and prices start at \$1,095 per p Janet Beebe for more information on this

Please submit listings to appear in the calendar to Employee Calendar, 130 Day Hall.

1984 Toyota Corolla, 4 dr sedan, 5 spd, no rust, ex

1989 Kirby vacuum cleaner, brand new, \$675 includes vacuum, all attachments and shampooer. 657-8455 after

2:30.

1982 Plymouth Voyager, seats seven, exc cond, still under warranty, \$9,500, leaving for sabbatic year, must sell. 277-11131 or 5-6430.

1980 Honda Hawk motorcycle (CB 400T), 5k miles, elec start, exc cond, \$600. 5-5908 or 844-4094 eves.

1979 Dodge Omni, runs great, \$450; queen size mattress and box springs, exc cond, \$150 firm: Upland No. 17 airtight wood stove, exc cond, \$175. Dan Reynolds 594-2825.

Four wheel drive, 1977 Jeep CJ7 hardtop, dark blue, very good cond, 6 cyl, standard, five new tires, new battery, new heater, just serviced, low miles, great in mud or snow, \$1,650 firm. Dan Rynolds 607-594-2825.

1975 Ford F100 4x4, 69k, orig owner, 360 V8, PS-PB.

AC, auto, radials. 8' box. Winnebago cap, hitch, rusty but

FOCUS on the Employee Assembly

who have little or no such experience.

THis is you chance to have an important

voice in the direction our employee news-

Employee Assembly want you to know

understand that while we as a body are

not being critical of the way "Network-

ing" is currently being produced, we rec-

ognize that from time to time it can be

beneficial to review policies and proce-

dures and, if necessary, recommend con-

As your elected representatives, the

paper will take as we move into the

structive changes.

Anyone wishing to serve on this task force is urged to submit your name. campus address and telephone in writing to the Office of Assemblies at 165 Day Hall not later than September 18, 1989.

To make this venture successful, it is imperative that we have the cooperation and assistance from ALL the Cornell community. We want to ensure that everyone has a chance to get involved, so please give careful consideration to volunteering and let us hear from you.

Report from Your **Employee Elected Trustee**

By Dwight Widger

and

There are numerous events of interest that have happened since the past issue of Networking.

The Office of Human Resources has mailed out information to individuals regarding the classification review study. This two-page summary outlining the details of the procedure and process has been mailed to staff members' home address. I encourage everyone to work with the Office of Human Resources and the consultants.

The Employee Assembly has approved the charge for a task force for the employee newspaper. The purpose to review existing policies, editorial

procedures and board membership. The Task Force will recommend changes and prepare a final report within the next year. If you are interested in serving as an At-large member of the Task Force, please contact the Office of the Assemblies at 255-3715.

The Task Force for Working Families

has prepared a report which was outlined at the last Employee Assembly meeting. There are over 40 recommendations that will be reviewed and considered for implementation. A Brown Bag Luncheon will be held on Tuesday. September 26 in Statler Hall, Room 190, starting at 12:10pm. This will allow all employees the opportunity to respond to the draft final report. Copies of the draft report are available in the Office of Human Resources for you to review prior to the luncheon. This Brown Bag Luncheon will allow you to respond to and comment upon the draft final report of the Task Force for Working Families.

The Brown Bag Luncheons will resume on September 26. The days will be changed to Tuesdays so that we will not compete with the South Asia Program Seminar Series. Luncheons to look for include Campus Planning on October 3. Employee Assistance Program (EAP) on October 17. Transportation on November 14. Extramural Education on January

If you have any questions, concerns or comments that your Employee Elected Trustee should be aware of, please do not hesitate to contact me. Mail should be directed to Dwight Widger, Nuclear Studies, Wilson Lab, campus or send computer mail to DWWO, CRNLNS.

Employee Day will be on October 7 1989 when the Cornell Big Red football team will take on Lalayette

A delicious chicken barbecue will be served after the game to all employees who purchase the presale tickets. Employee Day has become an annual event that is enjoyed by everyone. Watch for the details on where tickets will be available. I hope to see you there!

Program

Continued from page 1

ket and lock, pool privileges in both buildings, fitness room in HNH (includes Universal weight lifting machines, airdyne bicycles, Concept II rowing machines), Universal weight lifting machines in Teagle and the Barton Hall running track.

Also, you have the option of taking any P.E. class per semester for free. The fee for the academic year is \$78.00, \$50.00 for one semester and \$35.00 for the summer only. Just stop by either the Teagle or HNH issue room for further informa-

Second, if you are interested in early morning swimming there is a Master's swim club in Teagle which offers lap swimming Monday through Friday 6-8:45am. Fees are \$35.00 per semester and \$20.00 over the summer. The contact person for this activity is Maureen Carter 5-3093

Finally, the YMCA of Ithaca, located on North Triphammer Road, offers to its members exercise testing and health risk appraisals for a nominal fee. The testing and health risk appraisals for a nominal fee. The testing involves body-fat analysis, blood-pressure screening, cardiovascular assessment, flexibility and muscle

strength and endurance testing. The YMCA also offers swimming, aerobics, weight lifting, racquetball and other recreational activities. Their fees range anywhere from \$25.00 to \$315.00 depending upon what type of membership you desire. The YMCA also has scholarship programs for anyone needing financial assistance, so money should not be a concern. If you are interested in this community service contact Joanie Groome, program director, at 257-0101.

We will also be offering throughout the upcoming year cholesterol and blood pressure screening clinics, so you will have the opportunity to involve yourself in this part of the program as well.

Again, thank you for your interest in our program and we will try to accommodate everyone as soon as possible. I hope you will be able to take advantage of some of these other programs and start your commitment to yourself and your family in the pursuit of health and well being. It doesn't matter where you do it, just take that first step and go with it! Good luck and I hope to be meeting

and working with you in the future. Best Regards, Toni McBride Director of Wellness

WANTED

One Statutory Exempt Employee To fill seat on Employee Assembly

If you are interested in your coworkers' concerns and the Cornell community contact the Office of the Assemblies 255-3715

> For an application for the **Employee Assembly**

For more information on the campus governance system

CORNELL EMPLOYMENT NEWS

September 14, 1989

Including Job Opportunities

Volume 1, Number 36

Writing a Letter to a Person Who Has Harassed or Offended You

by Mary P. Rowe, special assistant to the president of MIT and adjunct professor at MIT's Sloan School of Management, used with permission

First, Collect Your Thoughts on Paper

If someone has offended you, you may wish to go back directly to that person. You will find it easier to go back to the offender, in person or on paper, if you first write a draft of how you see this matter. Then you can decide whether to send the letter, go back in person, or choose some other option to deal with the situation now that you have collected your thoughts on paper.

Writing this draft or this letter may take a little time. If you have been hurt, if you feel very angry, if you are at all afraid, you may find you need to write several drafts. Do not be worried if your first draft is a messy stream-of-consciousness, and do not worry about the tone of your early drafts. In fact, the more upset you are, the more worthwhile it is actually to write a letter. It will help to "get the anger outside yourself" and help in the process of deciding what option to choose in dealing with the situation. And your last draft will be more effective if early drafts have helped you deal with your feelings

Will a Direct Approach Cause Retaliation?

Sometimes a person who has been offended will worry whether a direct approach to the offender will cause that person to retaliate. This is an important question to consider, but in North American society a well-prepared, direct approach to an offender may actually be the option least likely to result in retaliation. Remember that most people in this culture would rather hear about a problem directly and this culture would rather hear about a problem directly and not from a third party. Also you should keep a copy of the letter you send; this is likely to help in dealing with the problem if there should be retaliation or if the offense recurs.

Letters are Useful When Backgrounds are Different

A letter can be used by <u>anyone</u> who feels unreasonably offended, intimidated or harassed. It is particularly useful where people's backgrounds are different. For example, energetic managers may offend older people, with allusions to age, without really understanding the offense. Ethnic slurs, anti-Semitism, anti-gay jokes, poking fun at the handicapped, racist behavior and sexual harassment are all problems where a letter may help. Letters have been effectively

used by non-technical people who feel that "the computniks are sneering at them" and vice versa; so also with smokers versus non-smokers. A letter may help with the garage that

Help Available at Cornell

Writing a letter to a person who has harassed or offended you can be a first step in dealing with harassment. Staff in the offices listed below are available to discuss the incident, to consider ways for you to deal with it personally, and to talk about the letter you've written. In addition, they can talk with you about other options for dealing with the harassment, such as through an informal complaint or through the formal grievance procedures. Help is available in the following offices:

Office of Equal Opportunity, 234 Day Hall, 255-3976 Office of the University Ombudsman, 116 Stimson Hall, 5-4321 Employee Relations, 130 Day Hall, 5-7206 Judicial Administrator, 223 Day Hall, 5-4680

Counseling and support for employees who have experienced harassment is offered through the Employee Assistance Program, 273-1129.

Content of Letter Should Fit the Particular Situation

I do not recommend a "form" letter. Sometimes a brief note is better among friends. Whatever the case, the letter should fit the particular situation exactly. I do recommend three parts to a note or letter. The first is an objective statement of "the facts as I perceive them." No feelings, judgments or opinions belong in this section. In serious cases it may help for this section to be quite long and very detailed. It must be scrupulously accurate to be effective and fair. The first section should not use euphemisms. It should be very matter of fact. If you are not sure whether a statement is factual, then say "I believe (this happened) ...; I think (this was the case) ..."

The second section is for opinions and feelings. "This is how the facts as I know them make me feel." This is the appropriate place for a statement of damages if any, "I feel I can no longer work with you;" "I was not able to work effectively for the following two weeks..."; I felt terrible about what you

Business Opportunities For Veterans

What: Seminar for men and women veterans exploring options and opportunities in starting their own

business

Onondaga Community College - Student Lounge

Onondaga Road, Syracuse, New York

Saturday, September 16, 1989

9:00 a.m.-4:00 p.m. Time:

Cost:

Sponsored By: Small Business Administration, Service Corps of Retired Executives, Small Business Development Center, New York State Department of Economic Development

Contact: David LaVeck, (315) 423-5356 (for handicapped ac-

cessibility arrangements)

Onondaga Community College, (315) 475-0083 (for general information)

Employee Benefits Staff Plans Retreat This Friday

The Employee Benefits section of the Office of Human Resources will be participating in a one-day staff development retreat on Friday, September 15 and will be unavailable for routine customer service. Phone coverage will be provided and questions and concerns will be taken at 5-3936

Survey Results Prompt **Electronics Course Offering**

Basic DC Electronics will be offered this fall due to employee interest indicated from a survey printed in CEN last spring. Employees who work with or have a strong interest in electronics will learn the fundamentals of basic electronics theory and DC currents and how to solve basic electronics problems involving current, voltage, resistance, and power. Schematics and basic components to construct DC currents will also be

Basic DC Electronics will be offered on Tuesdays and Thursdays beginning September 19 through December 21 from 8:00am - 9:30 am. You may register by calling Training and Development at 5-7170.

The Performance Appraisal Process: A "How-to" Series Begins Today

This week begins a series of articles on the process of performance appraisal prepared by Senior Training Associate Sandra Carrington based on information taken from a training seminar. Topics to be covered during the next few weeks include causes of poor performance, anticipating/dealing with and avoiding defensive behavior; the five most common problems to avoid in rating employee performance; and coaching and counseling. We begin today with a discussion of how to avoid personal reluctance to giving performance appraisals and the importance of having clear job descriptions as the basis upon which to build a successful performance appraisal session between the supervisor and staff member.

How to Reduce Personal Reluctance to Giving **Performance Appraisals**

by Sandra Carrington, senior training associate, Office of Human Resources



Sandra Carrington Sr. Training Associate

Do you enjoy the idea of sitting down with a staff member and reviewing her performance? Do you have any time in your day to even think about performance appraisals? Is it a waste of time to regularly review with your staff members your evaluation of their work? Do you have employees who are difficult you have employees who are difficult enough to deal with let alone review their performance?

The above are very real questions that managers have to face when considering how to comply with university policy to perform regular performance appraisals for all complexees.

I read somewhere that nonprofit organizations are supposed to have more than their share of managers

and supervisors who are reluctant to judge people and tell them where they stand.

I don't know if this statement is true but this series of articles will perhaps offer guidance and reassurance to those - both supervisors and nonsupervisory staff - who dread the thought of going through the annual performance appraisal process

Personnel Manual policy #505 states that "Each staff member's performance is to be formally evaluated by the immediate supervisor at least once every calendar year using an approved university performance appraisal form."

This formal appraisal is conducted IN ADDITION to ongoing discussion between a supervisor and employee concerning job performance routinely and regularly throughout the year. What is discussed in the formal performance appraisal - either positive or negative should come as no surprise to an employee - ongoing communication with his supervisor should have prepared him for the content of his annual review.

The performance appraisal is meant to be a positive step toward providing an opportunity for an exchange of views regarding job results and performance planning. The process is designed to promote communication between supervisors and staff, improve job understanding, promote more effective job performance and on-the-job employee development.

Understanding the value of combining a formal appraisal process with ongoing communication focusing on job performance is of immense value to both supervisor and employee. Taking the time to coach, counsel or whatever it takes to strengthen a work relationship is of utmost importance. Working with employees regularly over time will make the appraisal process seem far less threatening. Once the appraisal process is viewed as just another segment of your working relationship, reluctance to conduct the annual review will fade.

In addition to giving your assessment of the employee's performance in the job, the annual appraisal provides an opportunity to review the

accuracy of the job description and take an assessment of job responsibilities. Is the employee doing the same job she was hired to do? Have the work responsibilities changed? Is it time to take another look at the accuracy of the job description? Establishing clear job descriptions is one of the first steps toward promoting a positive performance appraisal experience.

Establishing Clear Job Descriptions

A job description gives an item-by-item list of the job's main duties, responsibilities and accountability. Breaking the job description into four parts helps to make it more clear and effective:

- Descriptive working title for that job Summary statement of main function List of specific job duties and/or responsibilities (main components, not details), in priority order (to enhance clarity), to indicate the approximate percentage of time required for each duty.
- Reasonable/appropriate educational/skill requirements based on job content. This section should reflect minimum qualifications an employee needs to do the job.
- 5. (optional) supervisor's title/name

Here's a checklist to use when putting a job description together, to make sure it's as clear as possible.

Checklist for Job Description Clarity

- Is the description clear enough to be understood by someone who is unfamiliar with the job?

 Does each sentence open with an active verb?

 Is the description in short, clear sentences, rather than long, involved ones?

 Is the description given in precise language that leaves no room for misinterpretation of what is actually done?

 Does the description include the quantity factor when possible?

 Continued on page 4 Continued on page 4

Staffing Services, 160 Day Hall, Cornell University, Ithaca NY 14853-2801 Day Hall: (607) 255-5226 East Hill Plaza: (607) 255-7422

- Staffing Services will acknowledge receipt of all material by mail. Hiring supervisors will contact those individuals selected for interview by phone; please include two or more numbers if possible. When the position is filled, candidates should receive notification from the hiring supervisor.
- Cornell University is an Affirmative Action/Equal Opportunity Employer.
- Job Opportunities can be found on CUINFO

Professional

Systems Programmer/Analyst III (PA8401) Level 34
Theory Center-Endowed
Provide UNIX systems support, including coordination of systems administration activities, for various workstation systems in the Cornell National Supercomputer Facility (CNSF).
Requirements: Bachelor's in computer science or equivalent combination of education and experience. 3-5 years experience with an understanding of UNIX and UNIX-based tools; experience with an understanding architecture; familiarity with networking and workstation-based user interfaces helpful; strong communication skills. Send cover letter and resume to Cynthia Smithbower.

Systems Programmer/Analyst III (PT8303) Level 34 Lab of Nuclear Studies-Endowed

Lab of Nuclear Studies-Endowed'
Design, Install, and maintain complex system software and hardware components; assist users in identifying and resolving complex technical problems; analyze laboratory computing requirements; develop techniques for incorporating innovative computational and I/O devices into data acquisition/analysis network.

Requirements: Bachelor's or equivalent with related course work required. 3-5 years programming experience. Knowledge of VMS, UNIX, VM operating systems and FOATRAN, C programming languages; UNIX and/or VM device driver experience helpful. Send cover letter and resume to Bill Webster.

cover letter and resume to Bill Webster.

Systems Analyst III (PT8308) Level 34 HRII
Mann Library-Statutory
Participate in the design and creation of scholarly databases. Develop and evaluate interfaces to bibliographic, numeric, and textual information systems. Provide technical support for implementing and maintaining systems for accessing, retrieving, and managing scholarly information. Provide consultation, instruction, and support to system users. Perform system analysis projects.

Requirements: Bachelor's or equivalent with concentration in computer or information science required. 3-5 years systems design and/or analysis experience. Knowledge of a high-level programming language and in-depth experience with a large-scale mainframe interactive computer system. Knowledge of development, database management, and search software. Send cover letter and resume to Bill Webster.

Applications Programmer I (PT7717) Level 32
Animal Science-Statutory
Design, write, implement, document and maintain applications software of a complex nature for the Northeast Dairy Records Processing Laboratory.

Requirements: Bachelor's or equivalent in Animal Science/Computer Science. 1-2 years related experience. An agricultural
background in the dairy field would be highly desirable as would
programming experience in assembler language and CSP. Experience with CICS desirable. Send cover ltr & resume to Bill Webster.

for PC use.

Requirements: Bachelor's or equivalent in chemistry, blochemior related field. Several years experience with drug metabolism use of HPLC. Some experience with PC, DOS, and Mac hardw software needed. Send cover letter and resume to Bill Webste

software needed. Send cover letter and resume to Bill Webster.

Research Support Specialist I (PT6904) HRI

Veterinary Pathology-Statutory

Provide investigative assistance and technological support to the Flow Cytometry Labs. Plan and execute research experiments related to the effects of oncogenes and chromosomal aberrations on cell differentiation. Supervise staff and/or participate in performing tasks related to cell culture, protein and nucleic acid analysis and flow cytometry; measure protein and RNA synthetic rates by radio labeled precursors. Assist in the analysis of data and in preparing results for publication.

culture). Send cover letter and resume to Bill Webster.

Research Support Aide (PT7516) HRI
CISER-Statutory
Provide support in form of direct consultation with faculty and grad students in quantitative social/economic research. Assist in use of CISER data archive collection of machine-readable data flies/print data resources on campus. Answer questions supplying data from public data files on a cost-recovery basis.

Requirements: Bachelor's or equivalent required. 1-2 years experience within a data archive or academic reference staff; some knowledge of automated systems or ability to work with automated systems. Must be able to work within a team and communicate effectively. Familiarity with machine-readable data files, knowledge of dedrai statistical programs, federal documents, social science research methods, grad work in library or information science, and computing skills-micro and mainframe desired. Send cover letter and resume to Bill Webster.

Professional Off-Campus

Send cover letter and resume to Esther Smith, Staffing Services East Hill Plaza, Ithaca, NY 14850.

Program Coordinator I (PA8502) HRI
Plantations-Statutory
The Natural Areas Program Coordinator is responsible to the Plantations Director for the management of the Cornell Plantations Natural Areas. The Coordinator will act as the Director's liaison with the Natural Areas Committee of the Plantations Advisory Board. Monday through Friday, 30 hours per week. Occasional evenings and weekends.

Technical

echnician, GR19 (T8206)

terinary Microbiology-Baker Institute-Statutory
nimm Biweekly Salary: \$535.78

bvide technical services to a virology/molecular biology laboratory
estigating viral diseases of animal and/or humans. Prepare and
intain cell cultures, viruses, bacteria and plasmids. Conduct a
rety of virological, immunological, molecular biologic and bactelogical procedures and assist in maintenance of the laboratory.

yuirements: Associate's or equivalent in biological sciences. 1
ar experience in biology lab. Able to conduct routine lab procetes from protocols; experience with molecular biological techlues useful.

chnician, GR19 (T8013)
netics and Development-Statutory
nimum Biweekly Salary: \$533.78
irry out biochemical and molecular biology experiments such as
IA isolation, blotting, sequencing. Perform plant tissue and
robial culture. Responsible for general lab organization and
mputer data entry.
quirements: Associate's or equivalent required; Bachelor's or
uivalent in biology, chemistry, or biochemistry preferred. 1 year
perience in a biology or biochemistry laboratory.

imal Health Technician, GR20 (T7905)
terinary Medical Teaching Hospital-Statutory
himum Biweekly Salary: \$558.78
byide support therapy for ICU patients and assist with emergency
lcedures. Teach intensive care and emergency protocol to
dents assigned to ICU duty. Some weekends and holidays.
tating shift, 3 p.m.-11 p.m. and 11 p.m.-7 a.m.
quirements: Associate's or equivalent in animal health technoly and NYS licensure (or eligibility) required. Minimum 2 years
lated experience. Experience working with small animals, interest
leaching critical care techniques preferred.

Computer Operator, GR21-24 (T8205)

echnician, GR21 (17808)

Ivision of Nutritional Sciences-Statutory

Illinimum Biweekly Salary: \$582.29

Povide technical support for research involving the physiological uses for the effects of malnutrition on lactational performance.

In the effects of malnutrition on lactational performance. The effects of malnutrition on lactational performance. In the effects of malnutrition on lactational performance. In the effects of the effects of malnutrition, or related field required. In the effect of the effects of

http://dx.mc.ac.gev.et/ac.

echnician, GR21 (T8414)

echnician, GR21 (T8414)

poultry and Avian Sciences- Statutory

linimum Biweekly Salary: \$582.29

set-up and perform experiments in animal development, cell biology, and biotechnology. Study genetic and environmental influences on growth & development using cytogenetic, tissue culture, histology, & lockemical techniques. Operate tissue culture facility, keep breeding & lab records, perform computer assisted computer analyses. Acquirements: Bachelor's or equivalent in biology, biochemistry or animal science. Minimum 1-2 years experience. Laboratory expended and demonstrated ability to work independently. Experience and dor interest in animal research essential. Some experience in bochemical and cellular techniques desirable.

The second of th

Simes involved in lipid metabolism. Schools, fequirements: Bachelor's or equivalent in chemistry or biochemility fequired and 2 years related experience. Experience in laboratory research; knowledge of lipids nutrition and instrumental methods, gas chromatography, HPLC and spectrometers. Familiarity with computers and radioimmunoassays.

Technician, GR21 (18312)

Illicrobiology-Statutory

Illinmum Biweekly Salary: \$582.29

Assist in projects aimed at characterizing types, abundances and physiological activities of microorganisms in laboratory and field betweets.

equirements: Bachelor's or equivalent in microbiology or related formulation of the second of the s

schnician, GR21 (T8310)
agnostic Laboratory-Statutory
Inimum Biweekly Salary: \$582.29
efform viral and chlamydial isolation procedures on clinical speciens. Perform a variety of serological tests including serum neutralialtion, agar gel immunodiffusion, and hemagglertinah inhibition.
efform fluorescent antibody procedures, tissue culture, and reaent preparation.

ant preparation.

antipreparation.

aquirements: Bachelor's in microbiology or biology required. 1quirements: Bachelor's in microbiology or biology required. 1years work experience. Good sterile and basic microbiological
achiques required.

Technician, GR21 (T8101)
Biochemistry, Molecular and Cell Biology-Statutory
Minimum Biweekly Salary: \$582.29
Operate HPLC on FPLC apparatus: perform other procedures in security and apparatus; performents and apparatus; perf

Vechnician, GR22 (17907)
Velprinary Pathology-Statutory
Inimum Biweekly Salary: \$607.04
Polyde technological support for research in the molecular pathological support for research in the molecular pathological support for research in the molecular pathological size of research and for conduct of experimental molecular and pathological science of laboratory.

Polydrometric Bachelor's or equivalent in biological science. Induirements: Bachelor's or equivalent in biological science. 1 If a minimum documentable experience in laboratory procedures, afferably involving molecular techniques and/or cell culture. Working knowledge of appropriate laboratory equipment. Familiarity with adding radioactive compounds. Animal handling experience street.

Vironmental Safety Technician, GR23 (T8107, T8406)
Vironmental Health-Endowed

mental Health-Endowed misweekiy Salary: \$632.84 routine inspections of laboratories and other workplaces to health hazards; investigate reports of possible health. Perform environmental sampling & maintain instruments ments: Associate's or equivalent required; Bachelor's o in with coursework in chemistry, biology, or engineering d. Some laboratory experience as well as health and safety desirable; good interpersonal skills essential. 2-3 years experience desired.

Sectronics Technician, GR25 (T8412) Computer Science-Endowed Inhimum Biweekly Salary: \$694.38

Provide support, design and planning for the department's computing facilities and hardware. Provide hardware maintenance on a wide range of computing hardware, including direct electronic circuit repair to the component level of digital and analog circuits. Perform site and facilities planning, negotiate and supervise the implementation of maintenance contracts.

Requirements: Associate's or equivalent in electronics plus minimum 5 years experience in the analysis and repair of electronic computing circuits. Knowledge of a wide range of computing systems including engineering workstations and minicomputers. Experience with sophisticated electronic test equipment, such as logic analyzers, TDRs, and digital storage oscilloscopes. Experience with Ethernet networks valuable and with data communications equipment essential. Good problem solving skills and capable of independent decisions. Ability to communicate and interact with wide range of people is critical.

Technical Off-Campus

Technician, GR20 (T8504)
Entomology-Geneva-Statutory
Minimum Biweekly Salary: \$558.78
Assist in performing research in molecular biology/genetics including radioisotopic and fluorescent labeling of nucleic acids: electro-phoresis of nucleic acids, especially sequencing of DNA using manual and automated procedures; other recombinant DNA methods including DNA and RNA purifications, preparation of cDNA and genomic libraries, screening and isolation of recombinant phages and plasmids, various enzymatic procedures; and routine lab chores.

Requirements: Bachelor's or equivalent. 1-2 years experience in a molecular biology lab. Previous experience handling radioisotopes and sequencing DNA is essential. Ability to learn new techniques and to work with a minimum of supervision. Mature person with good organizational skills, attention to details, and a commitment to excelence.

Technical Part-time

Computer Consultants (T8212)
CIT-Workstation Resources-Endowed
A variety of part-time, temporary positions (with flexible scheduling)
are available in customer support and consultation. Excellent
learning opportunity. Schedules available 15-30 hours per week.

learning opportunity. Schedules available 15-30 hours per week. Monday-Saturday.

Requirements: Experience with a broad range of technologies (micro- and mainframe) with general knowledge of major application software (wordprocessing, DBMS, operating systems, etc.). Excellent communication skills and positive customer service orientation are essential. Knowledge of the Cornell computing environment preferred. Send cover letter and resume to Carol Lambert, CIT Resource Services, Cornell University. Computing and Communications Center, Ithaca, NY 14853.

Technician, GR20 (T8306)
Poultry and Avian Sciences-Statutory
Minimum full-time equivalent: \$558,78
Organize and perform research in avian reproductive endocrinology.
Perform experimental procedures including molecular endocrinology techniques, RIA, some animal work and data analysis. Mon-Fri, 4 hrs per day until 6/30/90, continuation contingent upon funding.
Requirements: Bachelor's or equivalent in biological science desired. 1-2 years lab experiese in radioisotope usage and molecular biology techniques. Able to work independently; mainframe and microcomputer familiarity.

Research Aide, GR20 (T8010)
Ecology and Systematics-Statutory
Minimum full-time equivalent: \$558.78
Responsible for standardizing and editing scientific geographic information previously entered into a computer database. Review, verify, standardize, research and complete computer records. 20 hours per week, flexible until end of grant.
Requirements: Bachelor's or equivalent required. Biology, ecology, or systematics major preferred. Prior experience with natural history collections preferred. Experience with personal computers, detail orientation and good knowledge of geography required.

Technician, GR21 (78405)
Biotechnology Program-Endowed
Minimum full-time equivalent: \$582.29
Assist in the operation of scientific instruments, including operating a computer and performing general lab activities in a service facility.
Operate a flow cytometer and a spectrofluorometer, maintain lab apparatus and supplies. Monday-Friday, 20 hours per week.
Requirements: Bachelor's or equivalent in physical or biological sciences preferred. Minimum 2 years of lab experience involving the use of some instrumentation. Some programming experience is desirable but not essential.

Media Technician, GR21 (T8210)
Law School-Endowed
Minimum full-time equivalent: \$582.29
Supervise and perform the operations of audio visual equipment and services at the Cornell Law School, including classroom support and special events functions. Serve as primary media technician for internal production of audio visual material. Mon-Fri, 1-5 (flexible). Requirements: Bachelor's or equivalent in communications, instructional media, or equivalent experience. Knowledge of operations of all commonly used audio visual equipment with emphasis on video recording systems; ability to trouble shoot this equipment. Supervisory experience strongly preferred. Excellent interpersonal and management skills.

Technical Temporary

Field Assistant (T8415)
Plant Breeding and Biometry
Harvest tomato samples for research in molecular genetics. Some lab work possible. Full-time; September-October.
Requirements: Able to lift 50 pounds.

Research Support Specialist (PT8304)
Center for International Studies/Carpenter Chair-Endowed
Conduct supervised library research projects on a variety of international topics involving American, European and Asian politics (economic, security and cultural affairs). Organize and manage research
files. 15-20 hours per week. Up to 12 months.
Requirements: Master's or equivalent research experience in the
social sciences (political science/history preferred). PhD or equivalent preferred. Research experience; some foreign language skills;
word processing.

Computer Programmer (T8204)
Agricultural Economics-Statutory
Revise existing programs written in Fortran and Turbo Pascal for a
microcomputer. Revise program which transfers data to the Fortran
Program. Monday-Friday, 20-39 hours per week. Until 12/31/89.
Requirements: Sufficient course work to understand Fortran and
Turbo Pascal programs written for a microcomputer. Knowledge of
microcomputers and Fortran and Turbo Pascal for microcomputers.

microcomputers and Fortran and Turbo Pascal for microcomputers.

Casual Computer Operator (T8113)

CIT - Hourly rate: \$6.25

Responsible for the overall operation of a CIT public computer facility, operating NEXT. Mac, IBM Personal System II and Cornell mainframe systems (IBM and VAX). Maintain an online queuing system for micro users, handling minor hardware and software problems, and/or reporting them to the appropriate technical support person. Monitor peripheral equipment such as printers, plotters and networks. Monday-Friday, midnight-4 a.m.

Requirements: High School diploma or equivalent required: Associate's in computer science preferred. Familiarity with the operation of IBM micros (including Personal System IIs). Apple Macintosh (IBM) and VAX) desired. Some knowledge of microcomputer software packages essential.

Casual Animal Technician (T8003)

Casual Animal Technician (T8003)
Laboratory of Animal Services-Statutory
Provide weekend and holiday care of lab animals (feed, water, clean and monitor) following strict protocols for sterile or disease control environments and regulations for animal welfare. Maintain animal records. May include assisting Vets in treating and vaccinating animals. Saturday, Sunday, and holidays. 16-20 hours per week.
Requirements: High School diploma or equivalent required. Associates in animal science desired. Assistant animal certificate helpful. Knowledge of a variety of fab animals and animal breeding required. Knowledge of a variety of lab animals and animal breeding required

1 year animal experience. Ability to lift 50 pounds. Pre-employment physical and all necessary immunization required.

Office Professionals

Approximately half of all University openings are for Office Professionals. Individuals with secretarial, word processing (IBM PC, MacIntosh, Wang, Micom), data entry, technical typing, or medium to heavy typing (45-60 wpm) are encouraged to apply. Submit a signed employment application and resume. Requests for referral and/or cover letters are not accepted from external candidates unless specified in the ad. Qualified applicants will be invited for a preliminary interview at our East Hill Plaza office.

Office Assistant, GR17 (C8519)
Director's Office, Division of Biological Sciences-Statutory
Minimum Biweekty Salary: \$495.36
Greet visitors of the Biotechnology Research Facility; answer questions; give directions; provide complete mail and copying services for the approximately 400 occupants of the building.
Requirements: High School diploma or equivalent. Basic computer skills. Excellent interpersonal skills. Must enjoy people and be able to deal cordially, patiently and effectively with a variety of individuals. Light typing.

Telephone Operator, GR17 (C8405)
Telecommunications-Endowed
Minimum Biweekly Salary: \$495.36
Provide caller related assistance when University is open. Operate
Telex when required; answer approximately 500-600 calls per day.
Fall, Winter, Spring, Mon-Fri, 9:30-6:00; Summer, Mon-Fri, 8:30-5.
Requirements: High School diploma or equivalent. Able to work
independently. Good communications and interpersonal skills. CRT
and keyboard skills preferred. Light typing. Send cover letter and
resume to Esther Smith, Staffing Services, EHP, Ithaca, NY 14850.

Keypunch Operator, GR18 (C8302)
Finance and Business Services-Statutory
Minimum Biweekty Salary: \$513.94
Operate data entry and online display terminals in the process of creating or updating records for input to various computerized systems. Other office duties as assigned.
Requirements: High School diploma or equivalent. Some college coursework in computer science and/or secretarial science or equivalent. Minimum 1-2 years data entry, office assistant, and/or accounts clerk experience. Medium typing.

Secretary, GR18 (C8510)
Government-Endowed
Minimum Biweekly Salary: \$513.94
Provide secretarial support for faculty in preparation of course syllabi, reserve lists, textbook ordering, share responsibility for typing manuscripts, correspondence, etc. from secretarial pool workbox; inventory and process supply orders; light bookkeeping; post, sort and distribute U.S. and campus mail; as initial phone contact person, provide general information to public. Other duties as assigned.

Regularments, U.S. A.

as assigned.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related office experience required, preferably in an academic environment. Word processing/computer experience. Strong interpersonal, communication and organizational skills. Job necessitates a willingness to work with many interruptions. Medium typing.

Interruptions. Medium typing.

Secretary, GR18 (C8512)
Food Science-Statutory
Minimum Biweekly Salary: \$513.94
Provide secretarial support for several faculty. Extensive use of word processor to prepare manuscripts, grants, research proposals and related teaching and extension needs; handle travel arrangements; maintain files. Other duties as assigned.

Requirements: High School diploma or equivalent. Some college coursework preferred. Minimum 2 years related office experience. Word processing experience preferred. Strong organizational, interpersonal and communication (written and oral) skills. Medium typing with speed and accuracy.

with speed and accuracy.

Secretary, GR18 (C8504)
University Development-Endowed
Minimum Bliweekty Salary: \$513.94
Type correspondence and annual reports as they relate to scholar-ships, fellowships and professorships; collect and record data to be programmed into computer; assist in preparations of special recognition events; create and update files; perform research; schedule appointments; answer telephone.

Requirements: High School diploma or equivalent. Minimum 1-2 years experience. Knowledge of word processing (Olivetti) equipment. Good telephone techniques. Strong interpersonal and organizational skills. Able to work under pressure and handle confidential information. Good judgment and attention to detail. Medium typing.

Secretary, GR18 (C8507) JGSM-Endowed

JGSM-Endowed
Minimum Biweekly Salary: \$513.94
Provide clerical and secretarial support to the Dean's Office. Answer telephones; assist in the preparation of reports and projects; receive visitors; file. Other duties as assigned.
Requirements: High School diploma or equivalent. 1-2 years related office experience required, preferably in a higher education and/or business setting. Heavy typing.

Accounts Assistant, GR18 (C8518)
Unions and Activities-Cornell Cinema-Endowed
Minimum Biweekly Salary: \$513.94
Process all billings and maintain financial records for Cinema. Data
entry: order materials; prepare maillings: type; file; provide reception
support; make arrangements for visiting filmmakers, and oversee
shipping of films.
Requirements: High School dialogue or particulars.

shipping of films.

Requirements: High School diploma or equivalent. Some college coursework desired. 1-2 years experience with Cornell accounting procedures preferred. Word processing and general office skills required. Experience with dBase III Plus desirable. Medium typing.

Searcher, GR18 (C8408)
Serials/Centeral Technical Services-CUL-Endowed
Minimum Biweekly Salary: \$513.94
Under supervision of Documents Librarian, responsible for searching government document, monograph and serial materials received in Documents Section.
Requirements: High School diploma or equivalent. Some college coursework desirable. Minimum 1-2 years related work experience Attention to detail and ability to perform complex tasks. Strong organization skills essential. Light typing.

Accounts Assistant, GR18 (C8404)
Unions and Activities-Noyes Center-Endowed
Minimum Biweekly Salary: \$513.94
Responsible for all cash handling, petty cash, and Cornellcards. Act
as Week Day Manager for and give supervision to retail areas. 10

month position.

Requirements: High School diploma or equivalent. Some college coursework desired. Minimum 1-2 years of previous experience in cash handling and accounting procedures. Accuracy and timeliness are essential. Must be able to use standard office business machines. Knowledge of computers (IBM-PC-XT) preferred. Light

Secretary, GR19 (C8514)

Cooperative Extension Administration-4H Office-Statutory Minimum Biweekly Salary: \$535.78

Coordinate and expedite the statewide work of the New York State 4-H Foundation executive director/program coordinator and the administrative assistant by providing secretarial services. Receive and process all monetary contributions, ensuring confidentiality at all times. Function as a team member in the 4-H unit to facilitate the Cornell Cooperative Extension 4-H Youth Development Program. Requirements: High School diploma or equivalent. 1-2 years experience. Some college coursework preferred. Computer knowledge, spreadsheets, database, communications packages. Strong knowledge of office procedures. Able to work independently. Some travel involved. Must be able to relate to and communicate with others effectively. Heavy typing.

Administrative Aide, GR19 (C8508)
Asian American Studies-Endowed
Minimum Biweekly Salary: \$535.78
Provide a broad range of administrative/clerical support to director
and faculty associated with the program. Accounting, preparing
correspondence: make travel arrangements; supervise work study
students. Other projects as assigned. students. Other projects as assigned

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related experience with some administrative responsibility. Strong written and editing skills Knowledge of Cornell necessary. Familiarity with Mac. Med. typing.

Administrative Aide, GR19 (C8509)
Hotel Administrative Aide, GR19 (C8509)
Hotel Administration-Endowed
Minimum Biweekly Salary: \$535.78
Provide administrative and secretarial support to three faculty
members. Act as liaison between faculty and students. Compile,
type, proofread and edit complex course materials, exams, correspondence, research proposals, etc.; answer telephones; schedule
meetings and appointments; handle mail.
Requirements: High School diploma or equivalent. Some college
coursework preferred. 1-2 years related experience. Wordprocessing
skills required. Work independently. Excellent interpresonal and
organizational skills. High level of confidentiality essential. Requires
independent judgment and decision-making. Medium typing.

Independent judgment and decision-making. Medium typing.

Secretary/Receptionist, GR19 (C8407)

Economics-Endowed

Minimum Biweekly Salary: \$535.78

Provide secretary and receptionist support to several faculty; assist the department Executive Officer in the monitoring of department expenses; maintain accurate files; handle all typing of correspondence, research and coursework. Answer inquines (telephone and in person). Make travel arrangements; some accounting. Other duties as assigned.

Requirements: High School diploma or equivalent. Some college coursework desirable. Experience in technical typing, word processing, IBM (Wordperfect 4.2/5.0). Able to deal with a variety of people. Medium typing.

Secretary, GR19 (C8411) Hotel Administration-End

Secretary, GR19 (C8411)
Hotel Administration-Endowed
Minimum Biweekly Salary: \$535.78
Provide secretarial support for faculty in the area of teaching and research in food science. Using IBM PC (Wordperfect) respond to correspondence, type exams, class handouts and reports; respond to telephone inquiries; travel and guest lecturer arrangements; heavy student contact.

Requirements: High School diploma or equivalent. Some college coursework preferred. Minimum 2 years experience. Knowledge of wordprocessing. Experience with IBM PC (Wordperfect). Familiar-with culinary, chemicals, and biological terms, symbols and abbreviations. Excellent organization, interpersonal and communication skills. Heavy typing. viations. Excellent o skills. Heavy typing.

Administrative Aide, GR20 (C8516)
Public Affairs-Law School-Endowed
Minimum Biweekly Salary: \$558.78
Provide secretarial and administrative support to the Assistant Dean
for Development and Public Affairs, and to the Dean of the Law
School. Handle correspondence: assist in arranging meetings and
events; mail; make travel arrangements. Other projects as assigned.
Requirements: Associate's or equivalent. 2-3 years related experience. Excellent interpersonal, organizational and communication
skills. Word processing and computer (wordperfect) preferred.
Heavy typing.

Administrative Aide, GR20 (C8414)

Council of the Creative and Performing Arts-Endowed

Minimum Biweekly Salary: \$558.78

Provide administrative and secretarial assistance primarily to the

Program Director and Council members. Work with humanities and
fine arts departments to expedite arts programs; handle inquiries;
schedule meetings; assist with gathering information for proposals
and for publication of events in the humanities and the arts; provide
secretarial assistance to the Campus Activities Center. This position
will be shared by two departments.

Requirements: Associate's or equivalent. Minimum 2-3 years
office and secretarial experience. Strong organizational and typing
skills with ability to operate word processor for correspondence,
mailings, reports, programs, notices, etc. Knowledge of Microsoft
Word, Excel, Pagemaker needed or ability to learn. Familiarity with
Cornell accounting. Medium typing.

Secretary, GR20 (C8410)
Division of Nutritional Sciences/CFNPP-Statutory
Minimum Biweekly Salary: \$558.78
Provide secretarial support to administrative staff of Cornell Food and Nutrition Policy Program. Draft and type correspondence, manuscripts, proposals, etc. using Wordperfect; maintain calendars; arrange travel advances and reimbursements. Other duties as assigned.

signed.

Requirements: Associate's or equivalent. Minimum 2-3 years progressively responsible experience; proven ability to work independently. Able to work under pressure and handle multi-assignments. Microcomputer experience. Familiar with international work, knowledge of foreign language helpful. Heavy typing.

Secretary, GR20 (C6702)
Unions and Activities-Robert Purcell Union-Endowed
Minimum Biweekly Salary: \$558.78
Provide secretarial assistance for the Director, 2 Assistant Directors, student volunteers and employees. Duties include typing; administrative, reservationist, receptionist and operational responsibilities; extensive contact with students.

Requirements: Associate's or equivalent. Minimum 2 years secretarial experience essential. Shorthand preferred. Good communication (written and oral) skills essential. An ability to work in a dynamic atmosphere. Related word processing or IBM PC-XT experience preferred. Heavy typing.

preferred. Heavy typing.

Conference Coordinator, GR20 (C8304)
Conference Services-Endowed
Minimum Biweekly Salary: \$558.78
Provide administrative assistance in planning and programming various programs hosted by the university, including but not limited to conferences, workshops, special programs and special university visitors. Maintain minimum level of services: insure adequate and open communication between Cornell University Conference Services and those department participating in providing services.

Requirements: Associate's or equivalent in a hospitality area; excellent organizational and communication (oral and written) skills. Ability to work under pressure. Prior experience planning for varied public. Experience with IBM PC XT and word processing software essential. General knowledge of Cornell. Public speaking experience. Please note-due to heavy summer conference schedule summer vacation is not permitted. Medium typing.

Administrative Aide, GR21 (C7013)
Programs in Professional Education & Special Programs-End.
Minimum Biweekly Salary: \$582.29
To assist in the administration of all aspects of the department of Programs in Professional Education, as well as Summer Session Special Programs. Take responsibility for performing the more complex assigned functions and supervise and delegate the others.
Maintain computerization processes.
Requirements: Associate's or equivalent experience. Minimum 2-3 years related administrative experience. Familiar with wordperfect, IBM and Mac computers. Excellent organizational, interpersonal and secretarial skills essential. Medium typing.

sonal and secretarial skills essential. Medium typing.

Administrative Aide, GR23 (C8506)
National Astronomy and lonosphere Center-Endowed
Minimum Biweekly Salary: \$632.84
Provide direct support to the Director of NAIC in matters of general
office work as they relate to the administration of various levels of
operations and activities of a national center. Interact with executive
University offices, staff and government equivalents; make major
contributions to preparation of proposals to government agencies.
Requirements: Associate's or equivalent. Minimum 2 years experience. Excellent word processing skills, working knowledge of
wordperfect software preferred. Practical and working knowledge of
modes of operation in a major research facility. Familiar with
administrative and managenial requirements of a government sponsored facility. Able to work independently. Proven editorial and
written skills. Medium typing.

Office Professionals Part-Time

Office Assistant, GR16 (C8207)

Athletics-Endowed Minimum full-time equivalent: \$477.46

Under direct supervision, provide secretarial and clerical assistance in the operation of the Football Office. Serve as receptionist to visitors; hangle inquiries (in person and telephone). Process all mail requests for information, input data; type; file. Other duties as

Letter Continued from page 1

Finally the writer should state clearly what she or he thinks should happen next, and, if appropriate, ask for a specific remedy. "I ask that our relationship be on a purely professional basis from now on." "I want a chance to go over my work with you again and to reconsider my evaluation (grade)." "Since I was unable to go on this sales trip because of your behavior, I want immediate assignment to the next

When To Send a Letter

Many people ask if a letter really should be the first or the only attempt to deal with offensive behavior, and of course the answer is, "This depends on the people and the problem." Criminal acts may better be brought to the attention of supervisors or the courts, although occasionally a letter may be the right choice. At the other end of the spectrum one may wish to write a letter, and then not send it; consider forgetting the incident in the spirit of tolerance of diversity. Also, many people prefer to try talking with an offender before sending a letter, and there are many ways to do this effectively.

A letter may be an especially effective choice when verbal remon-A letter may be an especially effective choice when verbal remonstrance has been ignored. It is particularly useful with sexual harassment, with offenders who believe that "no" means "maybe" or "yes." A letter may work well in situations where an offender seems to have no idea of the pain being caused. Writing a letter may be particularly helpful when an offended person fears to come forward because she or he lacks conclusive proof of the offense, or where the offended person wishes to avoid the situation of "his word against mine." Letters are useful beyond the hope of stopping offensive behavior; they provide good evidence for management or a court to take action if necessary.

Letters are especially effective in dealing with very powerful people where a junior person otherwise has little leverage or fears retaliation. Writing a letter usually provides hope of ending harassment when the offended person wishes to avoid public exposure. Finally, writing a letter years after an offense may be an effective way of dealing with one's feelings long after an event, even after the "statute of limitations" has run out.

Letters are especially useful where a school or corporation has well drafted policies against all forms of harassment. They work bes where there are responsible grievance counsellors to help in sorting out alternatives and in drafting letters. They may be a good choice when an offended person particularly wishes to be scrupulously fair (because no third party need necessarily see the letter). And letter often work well in union situations, for example, worker with converter.

Writing a Letter Does Not Commit You to Sent It

Once the letter is written, actually <u>sending</u> the letter to an offende should be carefully weighed against other alternatives. Should a letter instead go to a supervisor? Should you now go talk with a trusted colleague or counsellor? Or with a women's group or a spouse? Writing a letter does not commit you to send it. It may be however, a good way to deal with feelings and organize your thoughts in the process of deciding your best option. And be sure to keep the letter; it may make you feel good about yourself for years.

Jobs Continued from page 3

Requirements: High School diploma or equivalent. Minimum of 1 year related experience. Excellent typing and telephone skills. Knowledge of Macintosh computer and word processing software important. Experience with university mainframe helpful. Medium typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Services, East Hill Plaza, Ithaca, NY 14850.

Office Assistant, GR17 (C7711)
Agricultural and Biological Engineering-Statutory
Minimum full-time equivalent: \$495.36
Assist Cornell Local Roads Program (CLRP) staff by registering
workshop applicants, distribute publications, respond to telephone
inquiries, type letters and reports. May involve travel to workshops
in NYS 3-6 times per year. Monday-Friday, 20-24 hours per week.
Requirements: High School diploma or equivalent is required.
Some college desirable. A valid NYS driver's license. Minimum 1
year office or related experience. Proficiency in Wordperfect required. Send cover letter and resume to Esther Smith, Staffing
Services, East Hill Plaza, Ithaca, NY 14850.

cretary, GR18 (C8513)

Secretary, GR18 (C8513)
Agronomy-Statutory
Minimum full-time equivalent: \$513.94

Type manuscripts and grant proposals with high degree of technical
difficulty; type and distribute departmental newsletter; backup for
department secretaries and department chair's secretary; other
duties as assigned. Mon-Fri, 4 hours per day, morning or afternoon.
Requirements: High School diploma or equivalent. 1-2 years
related experience. Some college coursework preferred. Good
communication skills. Able to prioritize. Experience with Wordpertect 5.0 on an IBM compatible computer. Knowledge of DBase III
desirable. Heavy typing. Send cover letter and resume to Esther
Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Accounts Assistant, GR18 (CR413)

Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Accounts Assistant, GR18 (C8413)

Academic Programs-Statutory

Minimum full-time equivalent: \$513.94

Assist in the operation and maintenance of the fiscal, inventory, and student employee areas of the department. Process fiscal forms, student appointments and payrolls, travel forms, and new equipment forms; perform physical inventory; order supplies; maintain records. Monday-Friday, 8 am.-12 noon.

Requirements: High School diploma or equivalent. Some college conserved desired. At least 1 year experience in a fiscally-oriented setting. Typing accuracy essential. Computer experience helpful. Medium typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

ning Department Assistant, GR18 (C8403)
quisitions/CTS-Endowed
ilmum full-time equivalent: \$13.94
rform secretarial, clerical duties. Search/input monograph orders
books for library system using NOTIS system. 20 hrs per week.
quirements: High School diploma or equivalent. Minimum 3
ars of progressively responsible technical service experience,
ong organizational, interpersonal and communication skills. Office
perience desirable. Light typing.

experience desirable. Light typing.

Office Assistant, GR18 (C7912)
Center for Environmental Research-Endowed
Minimum full-time equivalent: \$513.94
Responsibilities include word processing: file; handle mail; schedule
meetings and maintain staff calendars. Mon-Fri, 1-5 p.m. preferred.
Requirements: High School diploma or equivalent. Associate's or
equivalent preferred. Minimum 1-3 years experience in a large
office. Macintosh experience is essential. Good organizational,
interpersonal and communication (written and oral) skills. Medium
typing. Send cover letter and resume to Esther Smith, Staffing
Services, East Hill Plaza, Ithaca, NY 14850.

Senior Night Supervisor, GR20 (C8503)
Circulation-Engineering Library-CUL-Endowed
Minimum full-time equivalent: \$558.78
Under the general direction of the Administrative Supervisor for
Circulation/Reserve, oversee evening and/or weekend circulation
and reserve functions. Responsible for building security at these
times; supervise student staff and assist in their training. Wednesday-Saturday, weekend and evening hours.
Requirements: 2 years college coursework. Some supervisory
experience, good judgment, strong organizational skills. Previous
library experience strongly preferred. Strong communication and
interpersonal skills. Must be comfortable working with non native
English speakers. Light typing.

nior Night Supervisor, GR20 (C8214)
blic Services-Physical Science Library-CUL-Endowed
limum full-time equivalent: \$558.78
orsee the operation of the Circulation and Reserve desk during
ning hours. Responsible for library security; supervision of
sent staff; provision of information services; other clerical and
ection management duties as assigned. 20 hours per week.
nings and weekends TBA.
ulrements: Associate's or equiv. At least 2 yrs work experie. Supervisory & public service experience preferred. Strong
munication, interpersonal & organizational skills. Lt typing.

ceretary, GR20 (C8515)
elemistry-Endowed
nimum full-time equivalent: \$558.78
ord processing, database entry and computer-aided technica
awing for Professor; phone; mail; file; travel and appointmen
anagement; library searching. Mon-Fri, 4 hours per day, flexible
quirements: Associate's or equivalent. 2-3 years experience
h word processing and graphics. Excellent organizational anerpersonal/communication skills. Heavy typing. Send cover lette
esume to Esther Smith, Staffing Services, EHP, Ithaca, NY 14850

torial Assistant, GR22 (C8521)
SR-Endowed
Imum full-time equivalent: \$607.04
pare monthly project report; maintain library of current projec
uments; prepare presentation documents and graphics for gov
mental reviews; heavy emphasis on word processing. Week
s; hours flexible.

hours flexible. Irements: Associate's or equivalent in a physical science lor's or equivalent preferred. Editing experience required lence with both IBM and Macintosh operating environments. serfect experience required. Send cover letter and resume to r Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850

ffice Professionals Temporary

Sales Assistant (S8407)
Cornell Plantations-Statutory
General sales duties at Cornell Plantations Garden Gift Shop during
weekends and Holidays. Open, close, and oversee Headquarters,
register sales, answer phones, water plants, answer basic plant
questions, secure Headquarters building when closing. Occasional
nights during tours, and weekday coverage for vacations. Alternating weekends and holidays. Must be able to commit weekends on
a regular basis. Satur 10:00 am-5:30 pm.
Requirements: High School diploma or equivalent. Previous sales
experience required. Knowledge of plants helpful. Good interpersonal skills. Enjoy dealing with people, Please contact Karen Raponi
at 255-2192, Staffing Services, East Hill Plaza.

at 255-2192, Staffing Services, East Hill Plaza.

Research Support Specialist (S8401)
Human Development and Family Studies/Family Life Development Center-Statutory
Provide program evaluation support to training programs. Develop and revise evaluation instruments for the Child Protective Services
Training Institute, other grants and contracts; review and interpret the results of evaluation; write/edit evaluation quarterly reports; assist project staff in preparing grant proposals.

Requirements: Bachelor's in social sciences, with emphasis on program evaluation. 2-3 years experience in program planning and evaluation design. Expertise in statistical and software packages, Macintosh or IBM. Send cover letter and resume to Karen Raponi, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Nurse's Aide (\$8302)
University Health Services-Endowed
Assist clinicians and nurses. Prepare patients for medical exams.
Clean and stock examining rooms; prepare solutions and provide routine bed care in the overnight unit. Casual, 2 eves-11:30pm-8am.
Requirements: High School diploma or equivalent. Nurse Aide certification preferred. Recent health related services experience.
Strong interpersonal and communication skills. Able to work independently. Please contact Karen Raponi at 255-2192,
Staffing Services, East Hill Plaza.

Part-time Secretary, GR17 (S8201)
Education-Statutory
Provide secretarial support for Apple grant; coordinate staff activities
(i.e., calendars, meetings); type interim and final reports; transcribe
research-based interview tapes; attend advisory committee and staff
meetings; prepare minutes. 20 hours per week. Until 8/30/90.
Requirements: High School diploma or equivalent. Business or
secretarial school preferred. 1-2 years secretarial experience. Solid
word processing, typing, transcription skills required. Good organizational skills, and interpersonal skills required. Medium typing.
Contact Karen Raponi at 255-2192.

Office Assistant (S8103)
Facilities and Business Operations Administration
Process all work orders for maintenance, repairs, and construction
projects. Facilitate the purchasing and delivery of building materials
for maintenance, repairs, and/or construction projects. MondayFriday, 7:30 a.m.-4 p.m. for 6 months.
Requirements: High School diploma, Associate's preferred. Experience with the mainframe; Macintosh experience preferred. Knowledge of Excel software a plus. Send cover letter and resume to Karen
Raponi, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Part-time Research Aide (S8006)

Part-time Research Aide (S8006)

Research bird-related questions in Library for fact-checking and respond to technical bird-related inquiries. 20 hours per week-flexible until 12/24.

Requirements: Bachelor's or equivalent, biology or sciences background preferred, some course work in ornithology preferred. Some research experience and familiarity with ornithological literature. Send cover letter and resume to Karen Raponi, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

General Service

Dish Machine Operator, SO02 (G8504)

Dising-Endowed

Hiring Rate: \$6.00

Wash dishes, utensils, pots and pans. Stock assigned areas. Shift subject to change.

Requirements: Able to learn proper use of dishwashing equipment and cleaning agents. Able to lift 35 pounds.

Custodian, SO03 (G8503)
Residence Life-Endowed
Hiring Rate: \$6.28
Responsible for routine cleaning of assigned campus buildings;
oversee work of other custodians assigned to area. Coordinate and
assign all project work. Keep inventory records and issue supplies.
Monday-Friday, 39 hours/week.
Requirements: High School diploma or equivalent. Minimum 1 year
experience in custodial maintenance, supervisory experience helpful. Excellent organizational, interpersonal and record keeping
skills. Able to operate a variety of heavy power equipment, lift 50
pounds and climb 8 foot ladder.

General Service Part-time

Food Service Worker, SO01 (G8501)
Dining-Endowed
Hiring Rate: \$5.75
Set-up, display and serve food and/or beverage. Check Co-op dining cards for validity and make sale transactions by cash or credit card.
30 hours per week.
Requirements: Knowledge of food preparation and presentation preferred. Good customer relation skills. Basic reading and computation skills required.

Dish Machine Operator, SO02 (G8502)
Dining-Endowed
Hiring Rate: \$6.99
Wash dishes, utensils, pots and pans. Stock assigned areas. Shift subject to change. 30 hours per week.
Requirements: Able to learn proper use of dishwashing equipment and cleaning agents. Able to lift 35 pounds.

General Service Temporary

Please submit materials for the following positions to 160 Day Hall.

Temporary Field Assistant (B8402)
Vegetable Crops-Statutory
Hiring Rate: \$5.00-6.00
General field maintenance; plot clean-up. Drive tractor; minor
routine maintenance.
Requirements: High School diploma or equivalent. Some related
agricultural experience including driving a farm tractor. Send application materials to Staffing Serv., 160 Day Hall as soon as possible.

Academic

Performance Appraisal

Continued from page 1

Does the description include the operation relationships involved in meeting the responsibility?

Ask yourself these questions about the over-all list of steps:

Is every essential step included in the description?
Are the steps described in the logical sequence in which they should be taken?

Even though you don't want to go into too much detail, you also don't want the job description to be too general; because this won't allow you to determine the measurable expectations/standards you will need for appraisal.

Each responsibility should be defined by the expected results and standards. For example, instead of writing "to handle customer complaints," use "all complaints from the public will be investigated and answered within 5 days of their receipt." This makes measuring performance so much easier.

Establishing Measurable Expectations and Standards Based on Job Descriptions

Let's look at some of the characteristics of perform-

differentiates between acceptable and unacceptable results;
provides a challenge to the employee;
is realistic; i.e., attainable by any qualified, competent and fully trained employee who has the necessary resources and authority;

should relate to or express a time frame for accomplishment;

 is observable; i.e., must be a way of measuring actual performance against requirements of standards; and

Research Associate II, CA04
Food Science
Conduct research to elucidate the relationship between the struct and functional properties of native and modified food prote examine the nature of forces involved in film formation and stabilition of emulsions and foams; determine the effects of modification proteins on their physical properties, conformation and functions behavior.

behavior.

Qualifications: PhD in food/protein chemistry. Research expende in protein separation purification; structure determination at testing of functional properties (emulsions, foams, gels). Experient in scientific writing and knowledge of computers required. Set cover letter and resume to Professor John E. Kinsella, Departme of Food Science, 106 Stocking Hall, Cornell University, Ithaca, N. 14853 by November 20, 1989.

Research Associate
Natural Resources
1 year appointment with possibility of continuation.
Requirements: PhD required with strong preparation in social sciences and/or environmental education, social research methodic and statistics, and natural resource management. Social science wildlife management research experience required. Excellent or and written communication skills. Experience with SPSS and SAG science with supervisory experience preferred. Salary commensurate with qualifications. Send transcripts, resume, and names and addresses of three references to Tommy L. Brown, Senior Research Associate, Department of Natural Resources, Fernow Hall, Comel University, Ithaca, NY 14853 by October 1, 1989.

 assists in measuring a job responsibility when it is performed acceptably, and expressed in terms of: quantity, quality, time, cost effect obtained, manner of performance, or manner of doing (method).

This last item really addresses the problem of making sure you are keeping your standards in line with your job description. The process is fairly easy to follow, once you have your responsibility statements (#3. above) written as clearly as possible and defined by the expected standards. The trick to really making this work when it comes time for performance appraisal is to never start your planning stage without the job description as a foundation.

Here is a fairly simple, five-step program for you and your employee to follow once the job description is written so that it is really the tool for performance appraisal that it is meant to be:

Job descriptions and Performance Standards:

Five-step program

step #1: Your employee discusses her job description with you and you agree on the content of the job and the relative importance of the major duties — the things the employee is paid to do and is accountable for.

Your employee establishes performance goals for each of his responsibilities for the upcoming period. This is done during the time you are both planning for the appraisal meeting.

The two of you meet to discuss his goals, converte them, with your expectations.

step #4:

The two of you meet to discuss his goals compare them with your expectations and set your actual goals together. Checkpoints are established for the evaluation of her progress; ways of measuring progress are selected, preferably together.

When you meet again for the next appraisal session, you discuss the results of your employee's efforts to meet the performance goals that were established last period.