

Cornell CHRONICLE

Volume 18 Number 14 December 4, 1986

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Damaged
wheat fields



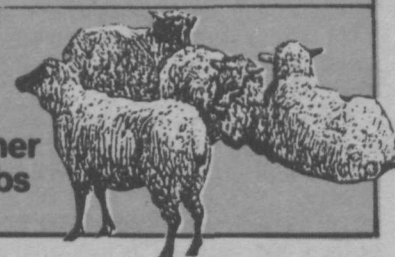
Vietnam journalists'
reunion

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Cornellians attend
NYC gathering

8

Leaner
lambs



Earliest known Ampere letters acquired

Cornell has acquired the earliest known letters of the 19th century French physicist Andre Marie Ampere, for whom the electrical measurement commonly known as amps is named.

The 250 pages of letters were discovered late last year in the barn of a chateau near Lyon, France, where Ampere was born in 1775.

Written when Ampere was 20 years old, the letters are an invaluable original source for "understanding the foundations of his genius," according to historian of science L. Pearce Williams, who is an authority on the life of the philosopher-scientist.

Williams, who is writing a biography of Ampere, long has contended that Ampere's contributions to modern scientific thought are far more significant than generally recognized. His fame rests on his theories and understanding of electromagnetism.

According to Williams, the letters reveal the workings of a self-educated mind operating in the pattern of the most creative of modern scientists, making leaps of the imagination often counter to accepted scientific fact and theory.

By the beginning of the 19th century French scientific thought had fallen into a rigid pattern, insisting that only scientific laws could be known. Theorizing was looked down on and considered unscientific, Williams explained.

Ampere fought this prevailing philosophy all his life and established approaches to scientific inquiry that are precursors of today's philosophy of science and patterns of scientific methodology.

He was entirely self-educated, and the letters "cite numerous books and encyclopedia articles that influenced him during his formative years," Williams said. The historian said that he has known for some time of a number of letters written to Ampere during his early years asking scientific and technical questions.

The discovery of the amazingly expansive responses to these queries is an event "of intellectual significance beyond my wildest dreams," Williams said.

Williams discovered the existence of the letters during a stay in Paris last January during a sequence of events worthy of that city of romance. A few days after his arrival, a long-time friend and Paris dealer in rare books and manuscripts phoned him saying that 15 minutes after Williams had left his shop inquiring about manuscripts on Ampere, a man walked in with the Ampere letters.

The man had just inherited the chateau in Lyon and discovered the letters while cleaning out the barn. It was his ancestor who had written the letters of inquiry to Ampere. The scientist's letters of response had remained unnoticed in the barn for nearly two centuries.

In a series of negotiations over the ensuing months, Cornell purchased the letters for \$30,000 with gifts from nine alumni and a friend of the university.

The letters are now part of Cornell University Libraries' History of Science Collections, which is particularly strong in the area of 18th century French science.

Williams is editing and translating the letters for publication in about two years.

— Martin B. Stiles



Photo by Claude Levet
Members of the Cornell Chorus giving their fall concert in Sage Chapel last month. On Dec. 7 and 8, the Sage Chapel Christmas Program will be performed in Sage Chapel at 8:15 p.m. And on Dec. 6, the Cornell Chorale and Cayuga Chamber Orchestra will perform Handel's "Messiah" in Bailey Hall at 7:30 p.m.

Free speech hearings continue

The president's free speech commission will hold its third open hearing at 5:15 p.m. Dec. 4 in the Moot Court Room of Myron Taylor Hall as it continues to gather opinions and suggestions from the Cornell community.

Included among the diverse ideas offered by students and faculty scheduled to speak at the hearings Dec. 1 and 2 were:

- the university is not a democracy
- the central administration should be accountable through the campus judicial system because it has a clear record of violating rights that are supposed to be protected under the Campus Code
- free speech is a privilege and not a right on campus
- the rights and responsibilities of the members of a university community should be broader than the law requires
- the university has legal responsibilities that may not be delegated
- a bill of rights and responsibilities should be adopted as the highest law of community with no exceptions
- if we rely on the courts to enforce our rights, we may find ourselves with fewer rights than we anticipated
- shanties are not symbolic speech but physical interference and coercion
- a committee should mediate issues concerning free speech, protests and demonstrations
- protestors have interfered with student rights to get a job or listen to speakers on campus

Continued on page 2

Wiesenfeld doubts dire predictions of ozone depletion causing cancers

Americans' habit of sun worship could prove more harmful in causing skin cancer than changes in the atmosphere, according to a chemist who is questioning government predictions that ozone depletion will cause 40 million new skin cancer cases in the next three generations.

When it comes to the threat of ozone depletion and possible remedies, "Prudence is indicated; panic is not," said John R. Wiesenfeld, chairman of the chemistry department. Government officials should be more concerned that people are spending more time in the sunshine because of lifestyle changes, he asserted.

The U.S. Environmental Protection Agency's projection and the State Department's recommendation to curtail worldwide use of chlorofluorocarbons (CFCs) are "irresponsible and misleading," said Wiesenfeld, who studies photochemical reactions in the atmosphere's ozone layer, which shields Earth from most of the sun's harmful ultraviolet radiation.

Recent observations of ozone fluctuations probably indicate redistribution rather than depletion of that vital atmospheric component, said Wiesenfeld, calling the EPA report a "snap judgment."

Wiesenfeld was reacting to the EPA study, "An Assessment of the Risks of Stratospheric Modification." That report warns

of ever-worsening danger to present and future generations because ozone layer depletion can increase the amount of ultraviolet radiation reaching the Earth.

The EPA predicts that failure to control CFC emissions will cause 1 million cases of skin cancer and 20,000 deaths among Americans born before 1985, an additional 8.3 million cases of skin cancer and 167,000 deaths to those born between 1985 and 2029, and 30 million cancers and 620,000 deaths among those born between 2030 and 2074. That forecast is based on continued worldwide growth of CFC use for the next three generations.

The State Department, in the meantime, has called for a near-term freeze and a long-term phaseout of CFCs, which are used to absorb heat in refrigeration systems, propel ingredients from aerosol cans and manufacture foam products. CFC reduction is on the agenda for a meeting of industrialized nations next month in Geneva.

Among the evidence implicating CFC products are satellite readings that show the ozone layer eroding an average of 0.5 percent a year between 1978 and 1985. Other measurements point to an annual depletion rate of 0.1 or 0.2 percent in recent years.

Chemical reactions involving CFCs in the atmosphere can destroy ozone, but that doesn't necessarily mean that ozone deple-

tion is occurring or that CFCs are solely to blame, according to some scientists, including Wiesenfeld. The chemical reactions in the atmosphere are not well understood, and the behavior of the ozone layer is the most complex and perplexing problem in global science today, according to the chemist.

Cornell laboratory experiments are helping to refine computer models of the atmosphere, "but we still don't understand the chemistry well enough," Wiesenfeld said. "We are learning more about the products of the reactions, how rapidly they occur and how the energy of the reactants affects the chemical mechanism."

Atmospheric chemists agree on one thing: It takes decades for the chemicals in aerosol sprays and refrigeration systems to reach the ozone layer. CFCs that are now in the stratosphere may have left Earth's surface in the 1940s and '50s, before aerosol cans and air conditioning systems achieved their current popularity. If CFCs really are to blame, "We could be seeing the leading edge of a huge depletion of ozone," Wiesenfeld said.

But no one, including the scientists who prepared the EPA report, knows the relationship between CFCs and ozone depletion, Wiesenfeld insists. "There is not even a

Continued on page 7

Notable

Jack E. Oliver, Irving Porter Church Professor of Engineering and a specialist in the structure and evolution of continents, has been named the new president of the Geological Society of America.

Oliver was elected to head the 14,500-member professional organization at its annual meeting in San Antonio, Texas, Nov. 10-13.

The society, which will celebrate its centennial in 1988, was formed at a meeting of geologists and paleontologists at Cornell in 1888. Oliver is the first Cornell faculty member to serve as the society's president since Heinrich Ries in 1929.

Oliver has been a member of the College of Engineering faculty since 1971 and was chairman of the Department of Geological Sciences, 1971 to 1981. He is the director of the Cornell-based Institute for the Study of the Continents and its industrial affiliates unit, the Cornell Program for the Study of the Continents.

He was one of the founders of the Consortium for Continental Reflection Profiling (COCORP), a federally funded research program that is mapping the deep structure of the U.S. continental crust.

Daniel Schwarz, professor of English, has been selected to direct a National Endowment for the Humanities Summer Seminar for High School Teachers.

He will teach "Reading Joyce's Ulysses," a seminar he first introduced in the summer program in 1985. In 1984 and 1986, Schwarz directed an NEH summer seminar for college teachers entitled "Critical Perspectives on the Early Twentieth Century British Novel."

Schwarz's "The Humanistic Heritage: Critical Theories of the English Novel from James to Hillis Miller" was recently published by the University of Pennsylvania Press. He has also written a forthcoming study, "Reading Joyce's Ulysses."

Madrigal dinner set

The Memorial Room in Willard Straight Hall will be transformed into a 16th century castle this weekend for three evenings of feasting and merriment.

A Madrigal Dinner will be held there Dec. 4, 5 and 6 beginning each evening at 6:30 p.m. and ending at 10 p.m. To celebrate the harvest and the holiday season to come, a dinner of trout with toasted almonds, cornish hens, and a steamship of beef with a variety of vegetables, fruits, nuts and breads, will be served.

Following the traditional procession of the boar's head and the toasting of the was-sail, there will be a performance by The Midway Caravan, jugglers, magicians, musicians and The Madrigal Singers.

Tickets are \$14 per person (\$9 with Cornell dining cards) and may be purchased at the Straight Ticket office. Reservations can also be made by calling 255-3430.

JGSM enjoys little Boesky hoax

The idea of learning stock evaluation and analysis from a new "trader-in-residence" apparently intrigued six students at the Johnson Graduate School of Management.

Responding to what seemed to be a course description that appeared in their mailboxes shortly before Thanksgiving break, they descended upon the office of JGSM Registrar Harriet Peters to sign up.

The students may not have read the description carefully enough to realize they were the victims of someone's practical joke: The name of the new "trader-in-residence" was given as Mr. Boesky, meaning financier Ivan Boesky, who recently was fined \$100 million by the Securities and Exchange Commission for illegal insider trading, i.e. securities transactions made on the basis of information not available to the general public. Students were promised that "guest speakers will include Mr. Dennis Levine and the attorney general of the United States." Levine, an investment banker, was arrested in May in another insider-trading

case.

Boesky is not — repeat, not — about to teach any courses at Cornell. To make sure that anyone else who didn't get the joke would not try to sign up for the bogus course, Peters sent JGSM students a memo even more improbable than the course description.

The memo informs students that, because of "Professor Boesky's tight travel schedule," classes would meet in "the V.I.P. lounge at the Greater Ithaca International Airport," with "Saturday morning makeup classes on the floor of the New York Stock Exchange" if inclement weather prevents the trader in residence from being in residence.

"We do have some fun" at JGSM, Peters commented, adding that, although Law School Prof. Dale Oesterle is teaching a course at JGSM this year on mergers and acquisitions, he hasn't signed up Boesky as a guest lecturer.

— Barry Gross

Trustees to meet in NYC Dec. 4

The Executive Committee of the Cornell University Board of Trustees will meet Dec. 4 in New York City.

The committee will meet in open session at 11 a.m. in the Executive Faculty Room (A-126) of the William Hale Harkness Medical Research Building of the New York Hospital-Cornell University Medical Center, 1300 York Ave.

Among items to be considered by the committee will be a proposal to upgrade animal-care facilities and to seek accreditation for facilities that are not already certified by the American Association of

Accreditation of Laboratory Animal Care.

The committee also will consider participation, as a founding member, in a specialty insurance company that will provide excess-liability insurance to institutions of higher education and private secondary schools. Other agenda items include financial, facilities and personnel matters at the Ithaca campus and at the Medical College.

In addition, the Buildings and Properties Committee will meet in open session at 9 a.m. in the Vanderwarker Room of the Memorial Sloan-Kettering Cancer Center.

Free speech *Continued from page 1*

- some speakers present such a serious threat to others that they should not be allowed a public platform at a prominent institution like Cornell
- no one has the right to build a shanty on someone else's private property
- if the university is simply a private corporation, then it has the power to allow or disallow what it chooses, but a university is more than that.

The Dec. 4 hearing will be open to comments from anyone in attendance.

Those scheduled to speak at the first two hearings were students

Jordan Yeager, Josh Abelson, Philip Gasper, Robert Applebaum, Elizabeth Uphoff, Lisa Dugaard, Steven Breslow, Paul Morenburg, Carl Etnier and Jacques Lerner, president, and Mindy Kaiden, vice president, of the Cornell Civil Liberties Union.

Also scheduled to speak were professors Walter Slatoff, David Lyons, L. Pearce Williams, Gordon Messing and Richard Booth.

Barton Blotter: Oscilloscope stolen

An oscilloscope and related equipment valued at \$3,000 was reported stolen from 230 Rockefeller Hall sometime during the week before the Thanksgiving break, according to the morning reports of the Department of Public Safety.

There were 14 thefts with losses in cash and valuables set at \$6,096, according to the reports for the period Nov. 13 through 25. Seven of the thefts were of wallets and a purse with losses in cash and valuables set at \$335.

Other thefts included a \$1,100 portable radio taken from Schoellkopf Field, a \$2,000 computer stolen from Upson Hall, a \$230 class ring taken from the campus store and \$585 in cash and tapes stolen from a car in the Oxley Polo Arena parking lot.

There were two false fire alarms set off during the 13 day period.

Two persons were referred to the judicial administrator; one on an assault charge and the other for possession of a stolen parking permit.

Computerized copies of the most current daily report may be called up on CUINFO under the title SAFETY. CUINFO terminals are located in the main lobbies of Day Hall, Gannett Clinic and the Olin, Mann and ILLR libraries.

Graduate bulletin

Foreign Language and Area Studies (FLAS) Fellowships: Applications for 1987-88 are available at the World Area Program Offices or the Graduate Fellowship Office, 116 Sage Graduate Center. Deadline, Jan. 23, 1987.

Continuing Graduate Student Fellowships: Applications are available in graduate faculty representatives' offices. Suggested deadline, Jan. 23.

Thesis submissions: Theses must be submitted to the Graduate School within 60 days of passing the thesis defense. Deadline for a January degree, Jan. 17, 1987.

Sigma Xi Grants-in-Aid Program: Graduate students and advanced undergraduates are eligible to apply for small research grants under the Grants-in-Aid Program of the Cornell Chapter of Sigma Xi, The Scientific Research Society. Deadline, Feb. 28, 1987.

Fuertes Memorial Scientific Writing Prize: The Cornell Chapter of Sigma Xi will award a \$350 prize and a \$150 prize for the best popular student-written articles on a topic of current interest in the physical or biological sciences. Deadline for submission, Feb. 15, 1987.

Briefs

■ **New director of maintenance:** Karl Schmid has been appointed director of maintenance and service operations, replacing Tom Brown, who has left the university to become the physical plant director at Ithaca College. William Alber assumes Schmid's former duties as director of facilities engineering in an acting capacity while a search is conducted.

M&SO is responsible for all building maintenance and offers a competitive option to the campus community for alteration and repairs in small to mid-scale projects.

■ **Xerox desktop publishing seminar:** Cornell Computer Services will play host to a seminar and demonstration by representatives of Xerox Corp. on its latest offering in desktop publishing, the Ventura Publisher, Dec. 16 from 1 to 5 p.m. Hour-long seminars will be held at 1, 2:30 and 4 p.m. in Caldwell 100 and demonstrations of Ventura and a full page display will run from 1 to 5 p.m. in Caldwell 250A.

■ **Intercession parking permits:** A limited number of central campus parking permits will be sold during the winter intercession to staff and faculty members. The permits will be valid from Jan. 5 - 23, 1987.

■ **No skis on buses:** The Office of Transportation reminds winter sports enthusiasts that skis are not allowed on campus buses. Ice skates with blade covers are permitted, although for safety's sake, skates may not be slung over the shoulder on buses.

■ **Traffic Bureau winter hours:** Winter hours at the Traffic Bureau, located at 116 Maple Ave., go into effect Dec. 15. The office will be open from 8 a.m. to 4 p.m. until Jan. 27 when regular hours of 7:45 a.m. to 5 p.m. resume.

■ **Red Cross Bloodmobile:** The Tompkins County Red Cross will station a bloodmobile at Morrison Hall, corner of Tower and Judd Falls roads, Dec. 9 from 10 a.m. to 3:45 p.m. For an appointment, call 273-1900. Walk-ins also welcome.

■ **Management orientation program:** The Fall 1986 Management and Professional Orientation Program will be held Dec. 8 through Dec. 11 from 8:30 a.m. to noon in the boardroom of the Johnson Art Museum.

The programs offers selective midlevel management and professional staff an executive perspective on the major issues and challenges facing the university. For more information, contact the Office of Training and Development, 107 Day Hall, telephone 255-7170.

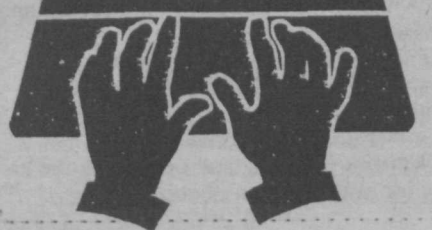
■ **Alcohol I.Q. Network:** The Alcohol I.Q. Network, an interactive computer program designed to provide objective, non-judgmental information about alcohol use, is now available on CUINFO.

Three selections are currently available: Spirited Information, 10 alcohol-related topics such as alcohol's physical effects, tips for party planning and how to help a problem drinker; Alcohol I.Q. Quest, a non-trivial pursuit test of alcohol-related questions; and Private Stock, a personal inventory of drinking attitudes and behaviors to help individuals identify high-risk behavior.

Public CUINFO terminals are located in campus libraries, Gannett Health Center and Day Hall. Those with computer accounts may access the network by logging on and entering CUINFO ALCOHOL. Comments, suggestions or questions regarding the programs may be directed to Nancy Reynolds, assistant health educator and program coordinator, telephone 255-4782.

Q: Is your alcohol outlook user friendly?

A: Log on to the Alcohol I.Q. Network for the full shot of information!



Cornell CHRONICLE

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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.

Severe outbreak of wheat disease hits New York

A fungal disease called scab broke out in epidemic proportions this past summer, resulting in heavy damage to the wheat crop in the Northeast, parts of the Midwest and eastern Canada.

In New York State, the disease struck numerous wheat fields with an unusual severity, according to Cornell plant pathologist Gary C. Bergstrom.

Bergstrom found that nearly every one of 32 wheat fields surveyed in central and western parts of New York was under attack.

"Of the fields inspected, 11 were severely infected, with estimated yield losses ranging from 10 to 30 percent," he pointed out.

The scab epidemic also hit other wheat-growing areas of the Northeast, including western Pennsylvania. The disease also was a problem in portions of the Midwest, including Ohio, Michigan, Indiana and Illinois, as well as in eastern Canada, according to Bergstrom.

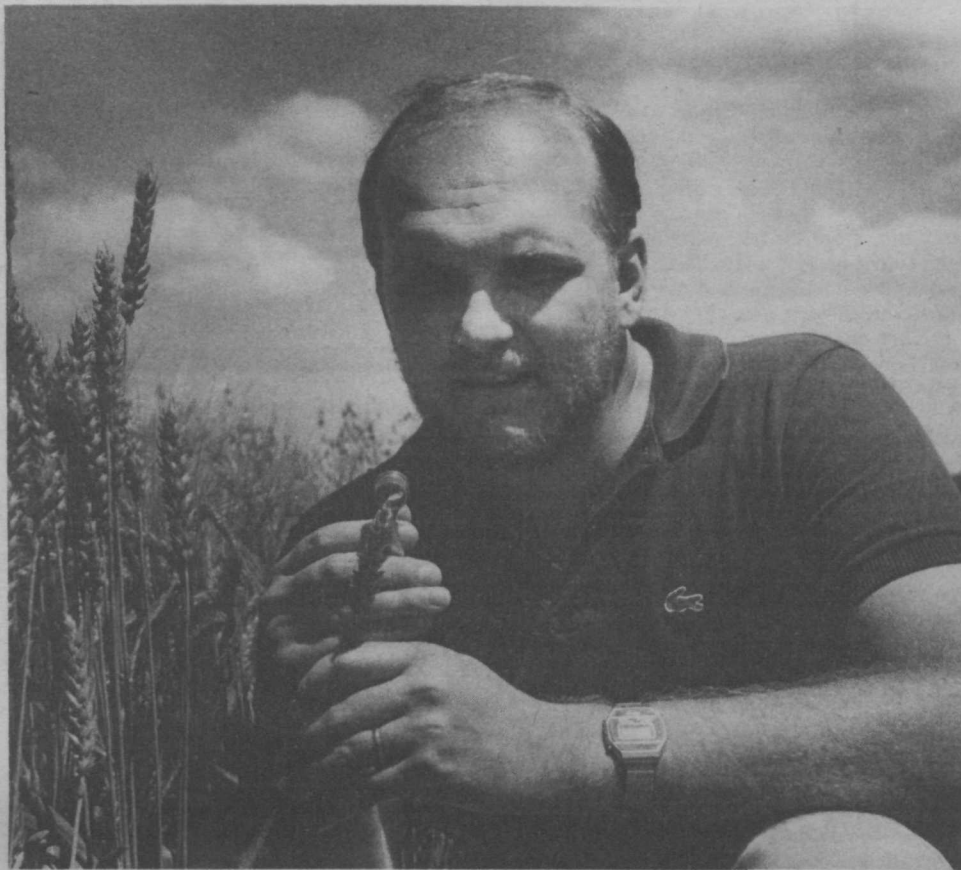
New York State, along with Michigan and eastern Canada, is the nation's major producer of soft white winter wheat used for pastries such as cookies, cakes and crackers, with about 200,000 acres annually devoted to the production of this type of wheat.

Bergstrom attributed the widespread scab outbreak to prolonged periods of warm, wet conditions that prevailed during May and June when wheat plants were at the blooming stage.

He said the disease is caused by one of several species of *Fusarium* fungus, a group of common disease-causing organisms affecting a wide range of agricultural and ornamental crops.

Scab, more popularly known as head blight, is a common ailment, attacking wheat and other small grain crops such as oats and barley to some extent each year, but it has been years since the disease has been this severe.

Many farmers are wondering whether the



Plant pathologist Gary C. Bergstrom inspects a blade of wheat for evidence of a fungal disease called head blight, or scab, that struck numerous wheat fields in the Northeast this past summer and may affect next year's crop.

disease will be as fierce and widespread next year.

Bergstrom said accurate predictions are difficult to make, because it largely depends on weather conditions. But he warned that this year's epidemic could have a detrimental effect on wheat and other small-grain crops next year.

Tests conducted by scientists at the Agri-

cultural Experiment Station at Geneva showed that a large proportion of the wheat seeds being readied for fall planting did not meet germination standards.

Many seeds planted in September and early October may have been infected with scab, which could affect germination as well as the health and the vigor of the plant during the winter and spring ahead.

"Marginally infected seeds may germinate, but the resultant plants may develop scab seedling blight or may later be weakened seriously by other *Fusarium* diseases such as root rot and crown rot," Bergstrom said. "Therefore, the final impact of the 1986 scab epidemic may not be realized until next year."

With fall planting of winter wheat already completed in the Northeast and other winter-wheat-growing areas of the nation, it's too late for growers to do anything about their wheat seeds.

But those who are planning to plant spring crops such as spring wheat, oats and barley can take certain measures to minimize the effect of scab-infected seeds on next year's crops.

Because the disease also is capable of damaging these crops, Bergstrom advises farmers to have their seeds checked for germination rates before spring arrives. In addition, fungicidal seed treatment for all spring grains is recommended.

Unfortunately, all small-grain varieties available commercially are susceptible to the disease, according to Bergstrom. Moreover, fungicides designed to stop scab in infected fields are unavailable, thus precluding chemical control.

The Cornell scientist said that scab in New York State is caused by the fungal species called *Fusarium graminearum*, also known as *Gibberella zeae*.

"Collectively, the fungus (*G. zeae*) right now is one of the most serious disease organisms affecting major farm crops in New York State," he said.

— Yong H. Kim

All-Mozart concert set

The Department of Music will present an all-Mozart concert performed on "original instruments" of the late 18th century, either restored originals or copies, Dec. 4 at 8:15 p.m. in Barnes Hall Auditorium.

Pianist Malcolm Bilson of the Cornell music faculty will join members of the Gainsborough Quartet of London in the piano quartet in G minor, K. 478 and the piano quartet in E-flat major, K. 493, and the Sonata in A major for piano and violin, K. 305. The program will also include the Sonata for piano solo in C major, K. 330.

Admission is free and the public is invited to attend.

Members of the Gainsborough Quartet — Elizabeth Wilcock, violin, Jan Schlapp, viola, and Timothy Mason, cello — have just arrived from London to join Bilson in a tour that will end next week at New York's Merkin Hall. The same concert will be presented next March at London's Wigmore Hall.



Malcolm Bilson, second from left, and members of the Gainsborough Quartet, who will perform Dec. 4 at 8:15 p.m. in Barnes Hall Auditorium.

Holiday decorations policy

With the approach of the holiday season, here is a reminder of the university's policy about holiday decorations.

According to University Senate legislation adopted in 1972, Cornell cannot sponsor or provide direct support for the display of religious symbols.

Any area that gives the impression that a symbol is associated with the university should not be used for a display. In particular, the external surfaces of buildings cannot be used for such displays; however, individuals are not prohibited from having private displays in their own offices or living quarters.

Stars displayed at Christmas time are considered religious symbols, according to the legislation. Decorated trees, however, are not considered religious symbols unless the decorations include religious symbols.

Decisions about application of the guidelines will be made by the vice president for campus affairs. Such questions should be addressed to Williams D. Gurowitz, 313 Day Hall.

Cornellians attend Saigon reunion

Several Cornell graduates and staff members attended the first international reunion of Vietnam journalists in New York City Nov. 21.

Demonstrations, not unlike those seen on the Cornell campus, greeted foreign correspondents who served in Southeast Asia when they met at the 7th Regiment Armory on Park Avenue.

Saigon reporters among the 230 persons at the reunion included Edith Lederer, '63, who graduated from Cornell in three years, and Robert Kaylor, '62, a former reporter and night editor of The Cornell Daily Sun.

Lederer covered the Vietnam war for The Associated Press and now is a writer in AP's London bureau. Kaylor, a United Press International reporter in Saigon, reports from the Pentagon for U.S. News & World Report.

The sometimes rambunctious reunion, recalling disputes of the Vietnam era, brought together newsmen and women who covered World War II, the Korean war, Taiwan Strait hostilities and the Indochina conflict.

The event was sponsored by the Overseas Press Club of America. Presiding was club president Herbert Kupferberg, '39, author

of books on music and a senior editor of Parade magazine, New York City.

A group of Vietnam war veterans invaded the reunion, distributed leaflets protesting attendance by former U.S. military officers and at one point seized the microphone to make an unscheduled speech.

Anti-war pickets paraded outside the armory and erected a bamboo cage as a symbol of Americans missing in Vietnam. After dinner, one correspondent jumped to his feet and interrupted a scheduled speaker by calling him a "certifiable loony."

On a calmer note, several Vietnam correspondents talked about George McT. Kahin, a Cornell professor of government and an expert on Southeast Asia. Kahin wrote a definitive history of U.S. involvement in Vietnam, "Intervention" (Knopf 1986).

Also at the reunion were Irv Chapman, executive director and editor-in-chief of Cornell's news service, and Al Kaff, managing editor of the news service. Chapman was an American Broadcasting correspondent in Vietnam. Kaff, co-chairman of the reunion, wrote for UPI from Saigon.

— Albert E. Kaff

Extension moves into engineering

A new Industrial Innovation Extension Service at Cornell has had 28 companies enlist its advice in improving productivity and profitability in its first six months of operation.

Involving faculty staff, and students from the College of Engineering and Cornell Cooperative Extension, the program is one of four created in collaboration with the New York State Science and Technology Foundation to help small and medium-sized companies cope with shrinking markets and foreign competition.

The companies in this eight-county Southern Tier area range from Modular Automation, a recently founded maker of automated guided vehicles and the successful and family-owned Saulsbury Fire Apparatus Co. to local subsidiaries of nationally known Rubbermaid Inc. and Allied Signal Corp.

"Many new technologies are being developed at universities, but faculty are often unaware of the opportunities for application," according to Charles Yohn, director of corporate relations at the College of Engineering.

"Many small companies don't have the capability to keep up with what universities are doing," he said, and the program provides a significant opportunity for technology transfer as well as worthwhile opportunities for professors and their students.

At Saulsbury Fire Apparatus in Tully, N.Y., a team of graduate students is involved in such projects as integration of a computer-aided-design system and the layout of a new manufacturing plant. The goal is to create jobs through upgraded manufacturing efficiency in a firm that has been experiencing rapid growth.

Anitec Image Corp., a major Binghamton employer, manufactures photographic films and papers. Cornell's Industrial Extension staff and Chemical Engineering Department will survey the technology of the manufacturing process. One goal is to reduce the cost of making film, while maintaining its quality. The submicron facility at Cornell could be brought to bear on this problem.

Other companies collaborating in key demonstration projects are Rubbermaid, Inc. and Buckbee-Mears Co., a maker of high-tech parts for video tubes, both in Cortland; Hilliard Corporation, a manufacturer of power transmission components and oil reclamation equipment in Elmira; and Ridley's Book Bindery, Inc. in Ithaca.

Other educational institutions in the region also are being brought in, including SUNY Binghamton and Broome Community College.

Irv Chapman

CALENDAR

All items for the calendar, except seminar notices, should be submitted (typewritten, double spaced) by mail or in person to Fran Appgar, Central Reservations, 531 Willard Straight Hall.

Notices must be received 10 days prior to publication and must include the name and telephone number of a person who can be called if there are questions, and also the sub-heading of the calendar in which the item should appear, i.e. dance, lectures, music, etc.

Seminar notices should be sent to arrive at the Chronicle office, Village Green, 840 Han-shaw Road, 10 days prior to publication.

These deadlines will be enforced.

DANCE

Israeli Folkdancing

Folkdancing every Thursday at 8:30 p.m. in the Edwards Room, Anabel Taylor Hall.

Cornell Folkdancing

Cornell folkdancers will meet Dec. 7 in Martha Van Rensselaer Hall. Free instruction from 7:30 to 8:30 p.m., followed by request dancing till 10:30 p.m. Beginners welcome, no partners needed. For more information call 257-3156.

EXHIBITS

Johnson Art Museum

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

"Shouts from the Wall (Gritos de la Pared)," an exhibition of 26 political posters from the Spanish Civil War on loan from the Tamiment Archives of New York University's Bobst Library, through Dec. 21. Sponsored by the Western Societies Program and the Department of Romance Studies to commemorate the 50th anniversary of the war.

"American Modernism: Precisionist Works on Paper," features 40 works that explore the beauty of rural and urban American architecture, industrialism and landscapes. The show, which includes works by Charles Demuth, Preston Dickinson, Louis Lozowick, Morton Shenberg, Charles Sheeler, Niles Spencer and Joseph Stella, continues through Dec. 21.

"New York State Artists VI," the sixth invitational exhibition of contemporary work by five upstate New York artists whose art chal-

lenges assumptions about "types" of art and expresses unusual perceptions, through Dec. 21.

"A Personal View: Photography in the Collection of Paul F. Walter," displays 70 photographs dating from the beginning of the medium to the present and reflects Paul Walter's admirable intelligence and independence as a collector, through Dec. 21. Among the 20th-century photographers featured are Cecil Beaton, Henri Cartier-Bresson, Man Ray, Imogen Cunningham, Atget and Paul Strand.

Olin Library

"Fight for Freedom: The Hungarian Revolution after 30 years," through Dec. 20.

"1936 - 1956 - 1986: War and Revolution in Spain and Hungary," First Floor and lower level, Sunday - Thursday, 8 a.m. - midnight.

Fine binding marbling since 1976, Rare Books room, 8 a.m. - noon; 1 p.m. - 5 p.m.

FILMS

Unless otherwise noted, films are sponsored by Cornell Cinema. An (*) indicates admission is charged.

Friday 12/5

"Dr. Zhivago" (1965), directed by David Lean, with Julie Christie, Omar Sharif, Rod Steiger and Sir Alec Guinness. Limited. 7 p.m., *Statler Auditorium.

"Ruthless People" (1986), directed by Jim Abrahams, David Zucker and Jerry Zucker, with Danny DeVito, Bette Midler, Judge Reinhold, and Helen Slater. Limited. 11 p.m., *Statler.

"Parting Glances" (1986), directed by Bill Sherwood, with Richard Gangoung, John Bolger and Steve Buscemi. 7:30 p.m., *Uris Hall Auditorium.

"Sincerely Charlotte" (1986), directed by Caroline Huppert, with Isabelle Huppert. 7:30 p.m., *Uris.

Saturday 12/6

"Ruthless People," 7:30 and 9:45 p.m., *Uris.

"Parting Glances," 9:30 p.m., *Anabel Taylor Hall.

"Sincerely Charlotte," 9:30 p.m., *Anabel Taylor.

Sunday 12/7

"San Francisco Video Festival I," 2 p.m., Johnson Art Museum. Open. Co-sponsored with CCPA.

"Dead End" (1937), directed by William Wyler, with Joel McCrea and Humphrey Bogart. Limited. 8 p.m., *Uris.

"The Empire Strikes Back" (1980), directed by Irvin Kershner, with Mark Hamill, Harrison Ford, Carrie Fisher and Billy Dee Williams. 2 p.m., *Uris. Limited. Co-sponsored with the Ithaca Youth Bureau. Admission \$2, \$1.50 under 12.

Monday 12/8

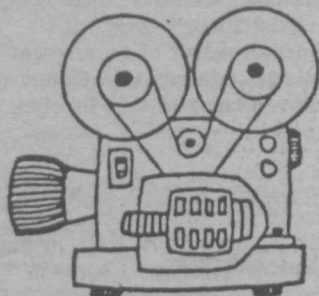
"The Crazy Family" (1986), directed by Sogo Ishii. 8 p.m., *Uris.

Tuesday 12/9

"The Warriors" (1979), directed by Walter Hill, with Michael Beck and Deborah Van Valkenburgh. Limited. 8 p.m., *Uris.

Wednesday 12/10

"Los Olvidados" (1950), directed by Luis Bunuel, with Estela Inda and Miguel Inclan. Limited. 8 p.m., *Uris.



LECTURES

Biotechnology Program

A symposium on plant tissue culture research, including applications to plant physiology, biochemistry, genetics, pathology and horticulture, 9 a.m. - 4:30 p.m., Dec. 8, 119 Baker Lab. Also included will be a discussion on transformation of plant cells. For more information, call Elizabeth Earle, 255-3102.

China-Japan Program

"Maoist Development in Retrospect: Economic Integration and Planning in China, 1957-1979," Thomas Lyons, visiting professor of economics, assistant professor of economics, Dartmouth College, 4:30 p.m., Dec. 4, 372 Rockefeller Hall.

English

Poetry reading by William Carpenter, author of "The Hours of Morning," winner of the AWP Award, and "Rain," winner of the Samuel Morse Prize, 8 p.m., Dec. 4, Risley Hall.

"Moby Dick: Melville's Romantic Cock and Bull; or the Great Art of Telling the Truth," Joel Porte, Harvard University, 4:30 p.m., Dec. 8, 115 Rockefeller.

Dept. of Music/Aegean Society

Greek Folk Instruments: A lecture and demonstration, Sam Chianis, Department of Music, SUNY Binghamton, 4:30 p.m., Dec. 4, 116 Lincoln Hall.

Near Eastern Studies

"Jewish Identity: The Modern Literary Evidence," Leon Yudkin, 4:30 p.m., Dec. 4, 397 Rockefeller Hall.

Psychology

"The Learning of Parameters and the Development of Binding Relations in Language," Kenneth Wexler, University of California/Irvine, 3:30 p.m., Dec. 5, Uris Hall room 202.

MUSIC

Bound for Glory

Wendy Grossman, Contemporary and traditional folk music from Ireland, Dec. 7.

Performances are free and open to the public. Three live sets at 8:30, 9:30 and 10:30 p.m. in the Commons Coffeehouse in Anabel Taylor Hall. Broadcast live on FM 93 on Sundays from 8 to 11 p.m. Also on 105.5 FM.

Cornell Folk Song Club

Cornell Folk Song Club holds two informal group sings each month. One is held on the first Wednesday of each month, at the Unmuzzled Ox Coffeehouse on Oak Ave. in Collegetown, the other on a Saturday evening to be announced.

Department of Music

An all-Mozart program performed by members of the Gainsborough Quartet and Malcom Bilson, fortepiano, 8:15 p.m., Dec. 4, Barnes Hall.

Handel's "Messiah" performed by the Cornell Chorale and the Cayuga Chamber Orchestra with soloists Mary McDonald, Cheryl Littell, Alan Crabb and Graham Stewart, conducted by Thomas Sokol, 7:30 p.m., Dec. 6, Bailey Hall. Admission charged.

Sage Chapel Christmas Program, ancient to modern chorales, bellringers and readings by the president, faculty and students; Donald R. M. Paterson, director and conductor. 8:15 p.m., Dec. 7 and 8, Sage Chapel.

RELIGION

Sage Chapel

Gail V. Riina, assistant director of Cornell United Religious Work, will preach at Sage Chapel Dec. 7 at 11 a.m. Her sermon topic will focus on Mary.

A native of New York, Ms. Riina comes to Cornell from George Washington University where she served as co-chaplain of the Newman Foundation (Catholic community).

She received a bachelor's degree in psychology, with honors, from Gettysburg College in Pennsylvania in 1973 and a master of divinity degree from Yale University Divinity School in 1976. While at Yale, she participated in the Clinical Pastoral Education Program at Yale-New Haven Hospital.

Music for the service will be provided by the Sage Chapel Choir under the direction of Donald R. M. Paterson, university organist and Sage Chapel choirmaster.

Catholic

Mass: Every Saturday, 5 p.m., Anabel Taylor Auditorium. Every Sunday, 9:30 and 11 a.m. and 5 p.m., Anabel Taylor Auditorium. Monday through Friday, 12:20 p.m. Anabel Taylor Chapel.

Sacrament of Penance Saturdays from 3 to 4 p.m., G22 Anabel Taylor, or by appointment, 255-4228.

Christian Science

Testimony meetings: Every Thursday, 7 p.m. Anabel Taylor Founders Room.

Episcopal (Anglican)

Every Sunday, 9:30 a.m., Anabel Taylor Chapel.

Friends (Quakers)

Sunday, 9:45 a.m., adult discussion, 11 p.m. meeting for worship, Edwards Room. Anabel Taylor Hall.

Great Commission Students

Worship service: Every Sunday, 10:30 a.m. 314 Noyes Center.

Jewish

Morning Minyan: 7:30 a.m. Young Israel House, 106 West Ave. Call 272-5810.

Reform Shabbat Services: Every Friday, 6 p.m.

Conservative/Egalitarian Shabbat Services: Every Friday, 6 p.m., Anabel Taylor Founders Room; every Saturday, 9:45 a.m., Anabel Taylor Founders Room.

Orthodox Shabbat Service: Every Friday, Young Israel, 106 West Ave. Call 272-5810. Every Saturday, 9:15 p.m. Anabel Taylor Edwards Room.





Floriculture and Ornamental Horticulture

"Herbicide Transport Mechanisms in Plants," John Jachetta, visiting scientist, Union Carbide, 12:15 p.m., Dec. 4, 37 Plant Sciences.

Genetics and Development

"Genetic Engineering with Transposon/Bacteriophage Mu," Malcolm J. Casadaban, Department of Molecular Genetics and Cell Biology, University of Chicago, 4 p.m., Dec. 8, 135 Emerson.

Geology

"Allochthonous Terranes in the Andes of Ecuador and Northwestern Peru," Tomas Feininger, Energy, Mines and Resources Canada, 4:30 p.m., Dec. 9, 1120 Snee Hall.

Immunology

"New Approaches for the Analysis of Mast Cell Maturation, Heterogeneity and Function in vivo," Stephen Galli, Harvard Medical School, 12:15 p.m., Dec. 5, Boyce Thompson Auditorium.

Materials Science and Engineering

"Exploring Recombination Mechanisms in Doped Silver Halides, John Spoonhower, Kodak, 4:30 p.m., Dec. 8, 140 Bard Hall.

Microbiology

"Biochemical and Genetic Studies of the E. coli Respiratory Chain," Robert Gennis, Department of Chemistry, University of Illinois, Urbana, 4:30 p.m., Dec. 4, 124 Stocking Hall.

Neurobiology and Behavior

"Chemical Signal Detection by Lobster Olfactory and Gustatory Receptors (or how lobsters really smell and taste)," Bruce Johnson, Section of Neurobiology and Behavior, 12:30 p.m., Dec. 4, Morison Seminar Room, Corson/Mudd Hall.

Pharmacology

"Progress on Mechanisms of Action of Ca channel Modulators," Arnold Schwartz, Department of Pharmacology, Georgetown University, 4:30 p.m., Dec. 8, Pharmacology Library (D101-L Schurman Hall).

Physiology

"Atrial Natriuretic Factor - Another Cure for Hypertension," Harald Sonnenberg, Department of Physiology, University of Toronto, 4:30 p.m., Dec. 11, G-3 Vet Research Tower.

Pomology

"An Increasing Role for Horticulturists in International Activities," Edwin B. Oyer, Director of International Agriculture, 4:30 p.m., Dec. 4, 404 Plant Science Building.

Poultry Biology

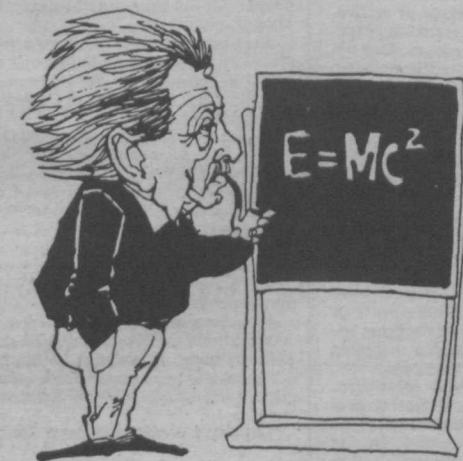
"Frozen Storage Changes in Gadoid Minces," Karl Ragnarsson, Department of Poultry and Avian Sciences, 4:30 p.m., Dec. 4, 300 Rice Hall.

Romance Studies

"Virtue in a Profit Economy: Dante's Purification of Avarice," Marilyn Migiel, Italian Literature, Yale University and a visiting Mellon Postdoctoral Fellow at Cornell, 4 p.m., Dec. 5, Goldwin Smith 201.

Rural Sociology

"Ecological Economics: Its History and Present Relevance to Development Studies," Juan Martinez, Autonomous University of Barcelona, Spain, 3 p.m., Dec. 5, 32 Warren Hall.



Stability, Transition and Turbulence

"Measurements in a Round Jet," N. R. Panchapakesan, School of Mechanical and Space Engineering, 1 p.m., Dec. 9, 282 Grumman Hall.

Statistics

"Large sample test of significance using multiply-imputed data," T. E. Haghunathan, Statistics Department, Harvard University, 3:30 p.m., Dec. 10, Caldwell 250.

Toxicology

"Tools of Risk Analysis," William Rish, EBASCO Inc., 12:20 p.m., Dec. 5, 304 Fernow Hall.

Water Resources Institute

"Remediation of Coal Gasification Sites: Problems and Opportunities," Edward F. Neuhauser, Niagara Mohawk Corp., Syracuse, 3 p.m., Dec. 5, 124 Martha Van Rensselaer Hall.



THEATRE



Theatre Cornell

"A Christmas Carol" by Charles Dickens, adapted by David Feldshuh and David Ball. Drummond Lab Theatre. Dec. 2 - 6 at 8 p.m. and Dec. 6 at 2:30 p.m.

Risley Theatre

"Mass Man," described as "a slice of life for the theatre" utilizing mixed media — dance, music, improvisational theatre and slides — written and directed by Debbie Spitz, artist-in-residence, 8 p.m., Dec. 7 and 8 at the Risley Theatre. Free admission.



MISC

Indonesian Arts Festival

The Cornell Gamelan Ensemble and guest musicians and dancers will perform at 7:30 p.m. Dec. 5 in Barnes Hall as part of the "unedited" Indonesian Arts Festival, Pasar Seni, which runs from 4 to 10 p.m. that day. Shadow puppetry, Indonesian dance, arts exhibits, a slide show and dance video and Indonesian snacks are all on the program. Everyone is welcome.

CUSLAR

The Committee on US - Latin American Relations (CUSLAR) meet every Monday at 5 p.m. in the Commons Coffeehouse in Anabel Taylor Hall. For more information contact the CUSLAR office at 255-7293.

Suicide Prevention

Suicide Prevention and Crisis Service of Tompkins County is again seeking volunteers for its 24-hour telephone hotline. The next training session begins in January and runs six weeks, meeting Monday and Thursday evenings. There will also be half-day Saturday sessions. For more information, call 272-1505.

Ithaca Rape Crisis

Ithaca Rape Crisis is accepting applications into its volunteer counselor training program. Interested women should be willing to make at least a one-year commitment. No previous experience is necessary. Contact Ithaca Rape Crisis, P.O. Box 713, Ithaca, 14851, 273-5589.

Alternatives Library

Located in 122 Anabel Taylor Hall, this library contains more than 5,000 books, 180 periodicals and 350 tapes and slide shows on topics of individual, social and ecological transformations. Areas include eco-justice, holistic health, Native Americans, sustainable agriculture, appropriate technology, gay issues, political and economic analysis, and spirituality and mysticism.

Observatory Open House

Fuertes Observatory, located on the hill behind Helen Newman Hall, will be open to the public every clear Friday night this fall from 8 p.m. until midnight. The planet Jupiter is spectacular this fall. Call the observatory at 255-3557 after 8 p.m. on clear Fridays for more information.

Writing Workshops

Free tutorial instruction in writing. Monday - Thursday, 3:30 p.m. to 6 p.m. and 7:30 p.m. to 10 p.m.; Sunday 3 p.m. to 8 p.m. at 174 Rockefeller Hall. Sunday - Thursday, 10 p.m. - midnight in 340 Goldwin Smith.

EARS

Empathy, Assistance and Referral Service, EARS, provides short-term counseling for both callers and walk-ins. Located in 211 Willard Straight Hall, one floor below the Ivy Room. Telephone, 255-EARS. Open seven days a week, hours are 3 p.m. to 11 p.m. Sunday - Thursday and 7 p.m. to 11 p.m. Friday and Saturday. All services are free and completely confidential.

International Teaching Assistant Training Program

Jan. 7 - 20 from 9 a.m. to noon daily. This program is free and open to international graduate students whose native language is not English, and who are currently or will be TAs in the Spring '87 or Fall '87 semesters. Students will receive instructions in pronunciation, rhetorical strategies, and classroom dynamics; the other component of the program is the extensive use of videotapes to critique student presentations. For further information and applications contact Ingrid Arnesen at 255-5279 or 255-6349.

Center for Research Animal Resources

Clinical Methods, Husbandry, and Diseases in Common Laboratory Animals: During the week of Jan. 5 - 9, 1987, the Center for the Research Animal Resources will be offering a short course designed to instruct animal technicians, graduate students and faculty in the proper methods of restraint, blood drawing, infusion techniques, anesthesia and husbandry in the mouse, rat, rabbit and guinea pig. Other topics to be discussed include: ethics, laws governing the use of animals in research, procurement of animals and their common diseases. To register, call Sue Lindsay at 253-3521 by Dec. 19.

The English Only Movement

"The English Only Movement: An Obstacle to Cultural Pluralism," a People of Color forum in response to the recent passage of California's Proposition 63, will be held Dec. 4 from 7:30 to 8:30 p.m. in Ives 110. Presentations will be given by Kjongoon Kim, Ray Figueroa, Kevin Holcomb and Vivian Medina. Sponsored by the Asian American Coalition, Black Students United and La Asociacion Latina.

Korean Church

Every Sunday, 3 p.m. Anabel Taylor Chapel.

Muslim

Sunday through Thursday, 1 p.m., 218 Anabel Taylor Hall; Friday, 1 p.m., Anabel Taylor Edwards Room.

Protestant

Protestant Cooperative Ministry: Every Sunday, 11:15 a.m. Anabel Taylor Chapel.

SEMINARS

Agricultural Engineering

"Marketing Agricultural and Biological Engineering Education," G.E. Rehkgler, 12:20 p.m., Dec. 8, 400 Riley Robb Hall.

Applied Mathematics

"Why Chaos Isn't: Finding the Order in Complicated Dynamical Systems," Philip Holmes, 12:30 p.m., Dec. 4, 321 Sage Hall. "Convection with Strongly Temperature-Dependent Viscosity in a Horizontal Layer," Philippe Metzner, Northwestern University, 4 p.m., Dec. 5, 322 Sage Hall.

Astronomy

"Carbon Stars at 2R0 and the Rotation of the Milky Way," Paul Schechter, Carnegie Institute, 4:30 p.m., Dec. 4, 105 Space Science Building.

Biochemistry, Molecular and Cell Biology

"Control of Gene Expression in the Biosynthesis of Yeast Mitochondrial Ribosomes," Thomas Mason, Department of Biochemistry, University of Massachusetts, 4:30 p.m., Dec. 5, 204 Stocking Hall.

Biophysics

"The TRP Repressor System: A Crystallographic Study of Genetic Regulation," Paul Sigler, Biochemistry and Molecular Biology, University of Chicago, 4:30 p.m., Dec. 10, Clark Hall room 700.

Chemistry

"Technetium Chemistry Related to Radiopharmaceuticals," Alan Davison, Massachusetts Institute of Technology, 4:40 p.m., Dec. 4, 119 Baker Laboratory.

Communication

"Communication Openness, Job Satisfaction, and Organizational Commitment," Donald P. Rogers, John Wiley Jones School of Business, SUNY Geneseo, 2:30 p.m., Dec. 10, 640 Stewart Avenue.

Job Opportunities

HIRING FREEZE BEGINS DECEMBER 4, 1986 THROUGH JANUARY 2, 1987. WINTER HOLIDAY SCHEDULE: Due to the Winter Holiday, there will be no 'Job Opportunities' list on December 25, January 1 or January 8. Therefore, requisitions received after noon on Thursday, December 11 through noon on Thursday, January 8, 1987 will be posted in the January 15 issue of 'Job Opportunities'.

Administrative and Professional

The minimum salaries listed are for recruitment purposes only.

PURCHASING MANAGER (PA476) Dining Services

Administer procurement of food, beverage and equipment in accordance with established University policy and sound purchasing practice. Emphasis is given to developing innovative methods resulting in effective cost, beneficial purchasing and internal controls.

Requirements: Bachelor's in business or related field plus 3-5 years experience or equivalent education and experience. Excellent organizational and communication skills. Send cover letter and resume to Cynthia Smithbower by January 2, 1987.

SUPERVISOR, GENERAL CONSTRUCTION (PA4714) Maintenance & Service Operations

Manage University's \$7 million-year in-house construction projects. Duties include scheduling, project management, training methods, customer relations and enterprise budgeting for 4 Unions shops (Carpenter, Sheet Metal, Paint and Masonry-90 tradespeople).

Requirements: Bachelor's degree in Architecture, Engineering, or Construction Management preferred plus 7-10 years experience in building or heavy construction. Proven interpersonal, communication and supervisory skills. Send cover letter and resume to Cynthia Smithbower by December 19.

SUPERINTENDENT, TECHNICAL SHOPS (PA4715) Maintenance & Service Operations

Manage University's Technical Shops. Duties include scheduling, project management, training, methods, customer relations, enterprise budgeting for the Control, Electric, Plumbing, and Refrigeration shops. Annual projects of approximately \$5 million.

Requirements: Bachelor's degree in mechanical or electrical engineering or related field. 5 years of physical plant or related experience. Proven interpersonal, communication and supervisory skills. Send cover letter and resume to Cynthia Smithbower by December 19.

COORDINATOR FOR DISABLED & VIETNAM ERA VETERANS (PA4716) Office of Equal Opportunity

Act as University's 503, 504 Coordinator and implement the program as prescribed in the 504 Self-Evaluation Plan and University Affirmative Action Plan. Work with disabled students, faculty and staff to identify reasonable accommodations they require in housing, dining, transportation, classrooms, etc. Provide financial, career and personal counseling.

Requirements: Bachelor's degree or equivalent experience. Knowledge of Sections 503 and 504 of the 1973 Rehabilitation Act with Section 402 of the Vietnam Era Veterans' Readjustment Act of 1972. Previous experience in working with students in higher education. Counseling experience required. Education or experience in dealing with a wide range of disabilities and special accommodations. Experience in dealing with disabled adults and their issues, especially young disabled adults. Demonstrated excellence in organizational abilities. Send cover letter and resume to Cynthia Smithbower.

EXTENSION SUPPORT AIDE (PT471) Cooperative Extension Administration

Assist in development and implementation of a comprehensive program for At Risk Farm Families including NY FarmNet callers and related audiences.

Requirements: Bachelor's degree in agriculture required. Strong written and oral communication skills required. Ability to work with diverse audiences. Knowledge of farming and farm families required. Valid NYS driver's license required. Willingness to travel. Knowledge of Cooperative Extension desirable. Send cover letter and resume to Judi Pulkinen by December 19.

SENIOR TECHNICAL CONSULTANT (PT4712) Computer Services: Academic Computing

Provide high-level statistical computing support services through teaching, consulting, and evaluating software. Support related research computing applications, including statistical graphics and database systems.

Requirements: MS degree or equivalent in statistics or related discipline. 3-5 years experience as a statistical computing consultant; in depth knowledge of mainframe and micro-computer statistics software. Send cover letter and resume to Judi Pulkinen.

ENVIRONMENTAL HYGIENIST I (PT473) Environmental Health

Recognize, evaluate and control chemical, physical, and biological hazards in the workplace. Take environmental measurements, interpret results. Provide consultation and advice on environmental health concerns. Supervise and implement new programs, direct technicians, interface with regulatory personnel.

Requirements: B.S. or equivalent required, M.S. desirable in physical or biological science or engineering. ABHI CORE certification (or certification desired). Experience

with environmental sampling devices instrumentation and methods. Familiarity with OSHA and EPA regulations. Good written and oral communication skills. 1-2 years in comprehensive environmental health program required. Send cover letter and resume to Judi Pulkinen.

COMPENSATION SPECIALIST (PA479) Personnel Services

Assist in implementation and administration of University's non-academic compensation plan. Extensive contact with all levels of faculty, administration, and staff, university-wide.

Requirements: B.A.-B.S. or equivalent in Personnel-Business Management or related field. Advanced degree preferred. 2-4 years in various personnel-human resources areas of specialization (compensation, staffing, benefits, employee relations, training); Business management or higher education experience helpful. Analytic, organizational abilities; interpersonal and verbal (written and oral) communications skills. Computer skills (SAS-LOTUS) desirable. Send cover letter and resume to Cynthia Smithbower by January 5, 1987.

ASSISTANT DIRECTOR OF STUDENT SERVICES (PA475) Office of Instruction

Assist Coordinator of Student Services in providing counseling services, planning and administering activities of office, and maintaining student advising system for the College of Agriculture and Life Sciences.

Requirements: Bachelor's degree required. Master's preferred. Experience in human services area; ability to make independent decisions; strong interpersonal skills; ability to relate to student problems; good organizational skills; ability to meet the public and make oral presentations; computer experience helpful. Send cover letter and resume to Cynthia Smithbower by December 12.

STAFF NURSE (P4713) University Health Services

Screen and assess patient needs after hours. Provide nursing care for patients admitted to after hours service. 9 month position; 5 nights per week, 11:00 p.m. - 7:00 a.m.

Requirements: NYS Nursing License. Graduate of accredited nursing school. Recent experience in hospital nursing with emergency nursing background desirable. Send cover letter and resume to Cynthia Smithbower by December 12.

CUSTODIAL SUPERVISOR (PG4711) Building Care

Responsible for custodial maintenance of a large complex of buildings on campus. Supervise staff of 25 or more, actively maintain excellent working relationship with building users, and manage large equipment and support inventory. Normal work week: Monday - Friday, 5:30 a.m. to 2:30 p.m.

Requirements: H.S. diploma or equivalent; Bachelor's degree preferred. Proven ability to manage a large group of employees (preferably in custodial-maintenance field); strong written and verbal communication skills; experience in inventory management. Must be in good physical condition. Send cover letter and resume to Bill Webster by December 12.

PUBLICATIONS CONSULTANT AND WRITER (PC435) Publications Services

Analyze publications and communications needed to develop new publications or rework existing publications to answer identified needs and relate to overall promotional goals of university; work with campus clients to develop printed materials; analyze current publications to identify duplications and gaps; assess publications needs of university to identify materials that can be produced for those needs; work with editors, designers and photographers.

Requirements: Bachelor's degree. Excellent writing skills. Marketing or public relations experience, preferably in a college or university. Familiarity with word processing desirable. Send cover letter, resume, 3 writing samples or call in confidence to Esther L. Smith (607-255-6874) by December 15.

STUDENT DEVELOPMENT SPECIALIST III (PA417) Career Center-Report

Coordinate career planning and placement activities for minority students; provide career-placement programs; develop cooperative relationship with employers, college placement offices, college minority offices, and student organizations. Handle special administrative projects such as Career Center News and Minority Employment Study.

Requirements: B.A. degree; Master's degree or equivalent preferred in counseling, student personnel, education or related areas. Career counseling skills; understanding of minority career development needs; 2 years experience in higher education, counseling, or career planning and placement. Send cover letter and resume to Cynthia Smithbower.

DIRECTOR (PA4611) Facilities Engineering

Will be University Engineer. Facilities Engineering includes all electrical, mechanical, structural, civil, and architectural design for repairs, maintenance, alterations, and plant operations. Responsible for project and energy management, space inventory, and plant long range planning. Provide technical standards and review for both maintenance and new construction. Direct \$2 million enterprise with 20 professionals and 20 support staff.

Requirements: BS in Engineering or Architecture, Master's preferred. Professional license strongly preferred. Extensive experience in facilities engineering, managing multi-discipline engineering functions. Highly developed technical, interpersonal and writing skills. Send cover letter and resume to Cynthia Smithbower by January 15.

SENIOR ARCHITECT (P4612) Facilities Engineering Organize and perform programming, design, estimating, construction, and contract documents, field inspection and construction management duties on a variety of projects. Make decisions related to alternatives and work performance to fulfill project programs, budgets and schedules through a section staff.

Requirements: Bachelor's degree in Architecture. Minimum 7 years relevant work experience. Must possess or be eligible for professional registration; demonstrated managerial and communication skills. Valid driver's license. Send cover letter and resume to Cynthia Smithbower.

ASSISTANT TO THE DIRECTOR (PA4614) Personnel Services

Under general direction, work with Director and department managers, in development, implementation and communication of personnel policies and procedures, and a diverse range of projects requiring research, evaluation, analysis, writing and presentation. Active involvement in full range of employee and labor relations activities.

Requirements: Bachelor's degree or equivalent experience. Master's preferred. 4-6 years professional level experience - employee labor relations, contract negotiations, organizational development. Interpersonal skills. Verbal and written communication skills. Send cover letter and resume to Lee M. Snyder, 130 Day Hall.

ARCHITECT I (P4613) Facilities Engineering

Perform Architectural design and drafting services for University renovations; participate and assist on major projects; and independently under take in-house projects.

Requirements: Bachelor's degree in Architecture. Minimum 1 year related experience or equivalent, excellent organizational, interpersonal, and communication (oral and written) skills, valid driver's license. Send cover letter and resume to Cynthia Smithbower.

RESEARCH SUPPORT SPECIALIST II (PT4610) Entomology-Geneva

At Hudson Valley Laboratory, assist research entomologist in studies on biology and control of fruit insect and mite pests. Apply and evaluate chemical insecticides; supervise and train field assistants; maintain insect cultures in laboratory and greenhouse; maintain experimental orchard plantings.

Requirements: Bachelor's degree or equivalent in agricultural sciences. Experience in operation and maintenance of orchard spray equipment and other farm machinery. Send cover letter and resume to Judi Pulkinen.

ADMINISTRATIVE SUPERVISOR (PT469) Agronomy

Manage day-to-day operations of Analytical Laboratory, supervising 7 technicians. Schedule work, train personnel and perform experimental development and modification work. Work closely with laboratory director and be part of decision making process.

Requirements: BS in Chemistry or equivalent. 3 years experience in wet chemical and instrumental analysis. Excellent organizational skills. 1-2 years supervisory experience. Familiarity with IBM-PC microcomputers. Send cover letter and resume to Judi Pulkinen by December 12.

RESEARCH SUPPORT SPECIALIST II (PT468) Natural Resources

Conduct and analyze research studies dealing with human tolerance of wildlife damage to homes, grounds, and crops. Analyze existing data using univariate and multivariate statistical techniques. Write reports of study findings and implications. Conduct field studies. 1 year appointment.

Requirements: MS in wildlife management or natural resources. Experience in conducting human studies related to natural resources utilization. Send cover letter and resume to Judi Pulkinen.

RESEARCH SUPPORT SPECIALIST I (PT461) NYC Cornell Cooperative Extension

Perform energy audits for small business and non-profit organizations. Provide educational material on energy conservation to target audiences. Communicate with small business owners, community leaders, etc. Supervise program staff and act as technical resource-person. Review reports of subordinates. Perform heat loss surveys and combustion efficiency tests.

Requirements: Associate's degree (CORE course work in math and science or related fields). Supervisory, interpersonal and verbal and written communication skills required. May be required to take math and keyboarding proficiency test. Valid NYS driver's license. Cannot work for or own an energy related firm while in employ of Cornell Cooperative Extension in NYC. Send cover letter and resume to Ruth Allen, 15 E. 26th St., New York, NY.

SYSTEMS PROGRAMMER III (PT451) Theory Center-Report

Under general supervision, perform systems analysis, design, programming and documentation for projects in Cornell National Supercomputer Facility. Provide software support and technical leadership for both users and other Theory Center staff.

Requirements: Master's degree or equivalent with a wide range of programming experience utilizing high-level languages. Demonstrated ability to work in scientific or large-scale computing environment. IBM mainframe (VM-CMS) and Fortran experience a plus.

TECHNICAL CONSULTANT III (PT072) Theory Center-Report

Provide full range of consulting services to researchers using resources of the Cornell Theory Center, including the Production Supercomputer Facility, Theorynet, and possibly the Experimental Facility.

Requirements: Bachelor's degree with Graduate study in either computer science or one of the physical-biological-engineering sciences. 3-5 years related experience including some experience with mainframe computers, experience with VM-CMS and array processors desirable; fluency in at least 2 programming languages; demonstrated ability to work with complicated programs; strong written and interpersonal communication skills. Send cover letter and resume to Judi Pulkinen.

RESEARCH SUPPORT SPECIALIST II (PT065) Physiology-Report

Design and conduct, in collaboration with principal investigator experiments directed towards cloning and characterization of intestinal DNAs and genes. Study of control of gene expression during development and differentiation of intestinal epithelium. Will assist in preparation and co-authoring publications.

Requirements: Master's degree in biology with emphasis in biochemistry and molecular biology, or genetics. Some experience in recombinant DNA techniques such as mRNA purifications, DNA cloning and sequencing required. Send cover letter and resume to Judi Pulkinen.

SYSTEMS ANALYST III (PT362) Integrated Pest Management-Report

Direct development and implementation of applications software for on-line information system for Cooperative Extension, and direct design and maintenance of computer products that support this system.

Requirements: BS in mathematics, physics, computer science, or related discipline, experience in development of an information system. Design and programming of micro computer software experience desirable. Send cover letter and resume to Judi Pulkinen.

Clerical

CURRENT EMPLOYEES should submit an employee transfer application, resume and cover letter. Also, if you are interested in a career development interview, please contact Esther Smith at 5-6874 to schedule an appointment.

OUTSIDE APPLICANTS should submit an employment application and resume. Applications and resumes typically remain active for three months; typing test scores remain on file for one year. The clerical section uses an automatic referral system whereby outside applicants are referred to positions for which they are considered qualified and competitive. Unless otherwise advertised, requests to be referred to a specific position will not be accepted. Applicants who are referred to a department for review will be contacted by the department if an interview is necessary.

NOTE: OPEN INTERVIEWING FOR OUTSIDE APPLICANTS interested in clerical positions will be conducted every Wednesday afternoon from 1:00 - 6:00 p.m. in our East Hill Plaza Employment Office. No appointment is necessary, however a short wait may be required. Call Esther Smith or Lauren Worsell if you have any questions. **DUE TO THE HOLIDAY SEASON, NO CLERICAL INTERVIEWS WILL BE CONDUCTED AT EAST HILL PLAZA WEDNESDAY, DECEMBER 17, 24, 31, 1986, AND JANUARY 7, 1987. THEY WILL RESUME ON JANUARY 14, 1987.**

ADMINISTRATIVE AIDE, GR21 (C474) Chemical Engineering

Provide research related administrative and secretarial support to Director. Manage research accounts; answer routine correspondence; type highly technical material; oversee completion and submission of proposals; handle travel arrangements; maintain files.

Requirements: A.A.S. degree or equivalent. Minimum 5 years administrative experience. Heavy typing. Confidentiality essential. Excellent communication, organizational and interpersonal skills required. Experience working with PCs, Lotus 1-2-3. Knowledge of Cornell accounting system desirable. Minimum Bi-weekly Salary: \$512.32

ADMINISTRATIVE AIDE, GR20 (C479) Veterinary Administration

Assist Director of Facilities Administration in coordination, implementation, and monitoring of facilities projects. Manage Physical Space Inventory and a wide range of facilities related data; provide clerical support.

Requirements: Associate's degree or equivalent. Minimum 2 years organizing and managing data, preferably in a facilities oriented environment, as well as dealing effectively with people. Light typing. Familiarity with buildings systems terminology and Cornell M&O operations and procedures is desirable. Excellent organizational and communication (written, oral, telephone) skills required. Ability to set priorities and to work in a complex, active environment. Minimum Bi-weekly Salary: \$482.33

ACCOUNTS COORDINATOR, GR20 (C477) Center for International Studies

Maintain accounting records for all accounts connected with the operation of the Center for International Studies and its related programs.

Requirements: A.A.S. degree or equivalent. Light typing. Familiarity with or course work in accounting, PC-Lotus 1-2-3, and WordPerfect. Experience in Cornell accounting system. Minimum Bi-weekly Salary: \$482.33

ADMINISTRATIVE AIDE, GR19 (C472) Campus Store

Provide administrative and secretarial support for Personnel Manager of the Campus Store. Process payroll; maintain all personnel records; schedule meetings and training sessions; make travel arrangements; initiate correspondence.

Requirements: Associate's degree or equivalent. Minimum 2-3 years related experience. Heavy typing. Knowledge of machine transcription and word processor or willingness to learn. Strong personal computer experience helpful. Minimum Bi-weekly Salary: \$457.09

ACCOUNTS ASSISTANT, GR18 (C4716) Agronomy

Responsible for specific personnel administrative functions. Provide backup support for accounting operations, and receptionist serv-

December 4, 1986

Number 47

University Personnel Services

Cornell University

160 Day Hall

Ithaca, New York 14853-2801

ice to department Chairman and main office operations.

Requirements: H.S. diploma or equivalent Business school desirable. Medium typing. Minimum 2 years experience in office operations; word processing (IBM-PC and Lotus 2-3 software desirable).

Minimum Bi-weekly Salary: \$431.43

SECRETARY, GR18 (C4715) History

Provide secretarial support for department, reception; mail. Type-proofread manuscripts, correspondence, course work. Other duties as assigned.

Requirements: H.S. diploma or equivalent Heavy typing. Business or secretarial school desirable. Minimum 1-3 years experience. Excellent typing skills. Knowledge of IBM Displaywriter and IBM compatible PC.

Minimum Bi-weekly Salary: \$431.43

SECRETARY, GR18 (C478) Section of Physiology

Type manuscripts, grant proposals, correspondence, annual reports, and class material. Mail pick-up and distribution. Schedule appointments; answer telephone. Travel vouchers. Other duties as assigned.

Requirements: H.S. diploma or equivalent Secretarial school desirable. Minimum 3 years experience. Heavy typing. Word processing (Leading Edge). Good organizational and interpersonal skills. Ability to set priorities and work in a complex, active environment.

Minimum Bi-weekly Salary: \$431.43

PROGRAM SECRETARY, GR18 (C476) Cornell Abroad

Provide secretarial and receptionist support. Keep appointments; coordinate meetings; transcribe correspondence and proofread; mailings; interact with students. Other duties as assigned.

Requirements: H.S. diploma or equivalent Business or secretarial school desirable. Medium typing. Macintosh computer experience. Excellent interpersonal and communication skills. Foreign language a plus.

Minimum Bi-weekly Salary: \$431.43

SECRETARY, GR18 (C475) Communication

Prepare correspondence, classroom materials, scholarly publications, proposals, etc. maintain reservation, checkout and maintenance for audio-visual equipment. Travel arrangements; forms. Assist with annual inventory review. Other duties as assigned.

Requirements: H.S. diploma or equivalent Medium typing. Experience with personal computers or willingness to learn. Good interpersonal and communication (written and oral) skills. Experience with audio-visual equipment.

Minimum Bi-weekly Salary: \$431.43

SECRETARY, GR17 (C4714) Mathematical Sciences Institute

Type correspondence and highly technical mathematical manuscripts using Greek, German, and Script symbols; run xerox; answer telephone. Other duties as assigned.

Requirements: H.S. diploma or equivalent Heavy typing. Experience with technical typewriters and word processors and TRIAD.

Minimum Bi-weekly Salary: \$409.53

General Service

Outside applicants for general service positions should apply in person at the East Hill Plaza Employment Office, Monday - Friday 9am - 12 noon. Phone requests and cover letters are not accepted unless specified. Regular Cornell employees should submit an employee transfer application.

GARDENER, SO22 (G474) Plantations Statutory

Responsible for development, management and interpretation of 2 botanical garden collections including Ground cover Collection and the A.D. White House Solarium. Assist with management of plant records system. Produce plant labels; perform field checks of labelled collections and update maps. Monday through Friday, 7:00 to 3:30.

Requirements: B.S. Horticulture, Botany, Plant Science or related field or equivalent experience. Taxonomic skills required. 3-4 years work experience in Horticulture or related field. Familiarity with computers desirable. Minimum hourly rate: \$7.07

COOK, SO22 (G473) Dining Services-En

dowed Prepare and present full variety of food including soups, sauces, casseroles, meat and vegetables. Shift subject to change.

Requirements: H.S. diploma or equivalent 3-5 years experience in preparing full range of entrees; knowledge of food cooking processes (grilling, frying, roasting, steaming) in an institutional environment preferred. Good interpersonal, communication and organizational skills. Ability to supervise. Minimum hourly rate: \$7.07

PRINT MACHINE OPERATOR, SO2 (G4715) Agricultural Economics-Statutory

Run offset presses (A.B. Dick 369T, A.B. Dick 360, Plate Maker), printing press (70 Perfection Davidson, Plate Maker), and other periphery equipment (Off-line collator-stitcher-folder, perforator, cutter, punch). Assume responsibility of daily operations in absence of Press Room Supervisor. Monday-Friday 39 hours per week; flexible shift; 2 year appointment with continuation contingent upon funding.

Requirements: H.S. diploma or equivalent Technical training in offset printing and other related equipment desired. Printing press experience desired; mechanical knowledge preferred. Job requires constant standing and ability to lift heavy cartons of paper. Minimum hourly rate: \$7.07

Ozone depletion *Continued from page 1*

qualitative understanding of what causes ozone layer behavior," he said. "How can the EPA make a quantitative statement?"

Wiesenfeld maintains that the ozone layer has been self-healing over the long haul. Some loss of ozone at the usual levels, between 15 and 20 miles above the surface, permits more ultraviolet radiation to penetrate lower levels of the atmosphere. Since UV energy fuels the chemical reaction that turns diatomic oxygen into ozone, more is produced, with the net result that the ozone layer temporarily shifts downward.

"The total amount of ozone doesn't change much," according to the Cornell atmospheric chemist. "For example, each year the ozone layer hole over the South Pole repairs itself as sunlight returns. The stratospheric ozone layer is a fairly stable system, but that doesn't mean we can't screw it up."

Conceding that he has not read the 1,600-page EPA draft report, Wiesenfeld called it "irresponsible in scope" because it apparently disregards another reason for increasing skin cancer cases. Americans' love affair with the sun and the quest for the "healthy outdoor look" could drive the incidence of skin cancer "out of sight," Wiesenfeld said.

Population shifts to Sun Belt states have more people spending more time in the ultraviolet rays. Skin cancer already has affected one of this country's most visible citizens (President Reagan), but "you don't hear anyone calling for a ban on tennis or horseback riding or skiing," Wiesenfeld said.

He believes that banning trivial uses of CFCs, such as personal care sprays, is sensible, but that prohibiting their use for refrigeration is not.

"There is no safe and effective substitute for CFCs in refrigeration," he said, noting that, before CFCs were invented, most mechanical refrigeration systems used ammonia, a toxic gas that requires frequent replenishment. "A return to inefficient refrigeration methods would expose the population to food poisoning from inadequately stored perishables," the professor said.

While manufacturers are searching for a CFC replacement, atmospheric scientists should intensify their study of the ozone layer, according to Wiesenfeld. "The experiments are getting harder; we've done all the easy ones," he said. "Now we need a global effort to characterize stratospheric chemistry."

The Cornell chemist is calling for a minimum of \$100 million in atmospheric studies during the next decade to learn more

about the ozone depletion.

"As the saying goes, 'Pay now or pay later.' In the case of ozone depletion and skin cancer, it could be 'pay now or pay a lot later,'" he said.

— Roger Segelken

Raymond to speak

George G. Raymond Jr., chairman of Raymond Corp. of Greene, N.Y., will discuss how his company made the transition from producing forklifts to producing automated materials-handling equipment at a meeting of the Johnson Graduate School of Management Club of Ithaca on Dec. 15 at 6 p.m. at La Tourelle. The cost is \$22.50 per person.

The meeting was rescheduled from Nov. 20 because of bad weather.

Job Opportunities *Continued*

HEAD CUSTODIAN, SO20 (G4714) Building Care-Statutory

Oversee cleaning of large athletic facility and associated office facilities. Coordinate equipment set-ups for major events, interacting with campus personnel. Oversee and develop a staff of 6 custodians. Responsible for equipment and supply inventory management. Monday - Thursday, 6:00 a.m. - 2:30 p.m.; Friday, 6:00 a.m. - 1:30 p.m.; periodic overtime required.

Requirements: H.S. diploma or equivalent. 3-5 years progressive experience in custodial maintenance. Demonstrated leadership and interpersonal skills essential. Ability to perform basic inventory-supply ordering responsibilities. Must be in good physical condition, able to lift 50 pounds, and climb an 8 foot ladder. Interested employees should submit a transfer application by December 12 to Bill Webster.

Minimum hourly rate: \$6.34

HEAD CUSTODIAN, SO20 (G4713) Building Care-Statutory

Oversee cleaning of multiple Statutory campus buildings; oversee and develop a staff of 10 custodians. Responsible for equipment and supply inventory management. Interact with building users in coordinating department services. Monday-Thursday, 6:00 a.m. - 2:30; Friday 6:00 a.m. - 1:30 p.m.

Requirements: H.S. diploma or equivalent. 3-5 years progressive experience in custodial maintenance. Demonstrated leadership and interpersonal skills essential. Ability to perform basic inventory-supply ordering responsibilities. Must be in good physical condition, able to lift 50 pounds, and climb an 8 foot ladder. Interested employees should submit a transfer application by December 12 to Bill Webster.

Minimum hourly rate: \$6.34

UTILITY PLANT OPERATOR, GR19 (G475) Buildings and Properties-Geneva

Operate 3 natural gas-oil fired boilers at the Central Heating Plant. Duties include starting and operating 150 pound high pressure steam boilers and their related equipment including pumps, controls, fans, water softeners, etc.

Requirements: H.S. diploma or equivalent. Some experience in mechanical trades, high pressure boiler operation and plumbing desirable. Must hold or be able to obtain a 'Certificate of Competence-High Pressure Boiler Operating Engineer.'

Minimum Bi-weekly Salary: \$457.09

GROUNDWORKER, SO18 (G476) Phys Ed & Athl-Endowed

Maintenance of all Athletic department equipment and playing areas including preparation of these areas for intercollegiate events, physical education classes and intramural activities. Monday through Friday, 7:00 to 3:30.

Requirements: H.S. diploma or equivalent. NYS driver's license required. Knowledge and skill of turfgrass maintenance and proficiency in routine repair, maintenance and handling of turfgrass equipment required, knowledge of athletic events and set-ups preferred.

Minimum hourly rate: \$5.71

CUSTODIAN, SO16 (G4712) Buildings Care-Endowed

Provide general maintenance and custodial care of buildings and grounds in immediate vicinity of assigned area. Saturday through Wednesday, 11:00 p.m. to 7:30 a.m.

Requirements: H.S. diploma or equivalent. Able to operate a variety of heavy power equipment, lift 50 pounds and climb an 8 foot ladder.

Minimum hourly rate: \$5.14

CUSTODIAN, SO16 (G4710, G4711) Buildings Care-Endowed-2 positions

Provide general maintenance and custodial care of buildings and grounds in immediate vicinity of assigned area. Monday through Thursday 6:00 a.m. to 2:30 p.m.; Friday 6:00 a.m. to 1:30 p.m.

Requirements: H.S. diploma or equivalent. Able to operate a variety of heavy power equipment, lift 50 pounds and climb an 8 foot ladder.

Minimum hourly rate: \$5.14

DISH MACHINE OPERATOR, SO16 (G472, G478) Dining Services-Endowed-2 positions

Wash dishes, utensils, pots and pans; ensure designated areas are stocked with articles. Monday through Friday, shift subject to change.

Requirements: Ability to learn proper use of dishwashing equipment and lift 35 pounds.

Minimum hourly rate: \$5.14

OFFICE ASSISTANT, GR19 (G393) Campus Store-Repost

Under general supervision, responsible for ordering technical and reference books, timely process of orders and stock shelves; interact with technical reference book vendors

and handle majority of customer related issues. Monday - Friday, 8:30 a.m. - 5:00 p.m.; occasional weekends.

Requirements: H.S. diploma or equivalent; Associate's degree or equivalent preferred. 1-3 years retail experience. Experience in textbooks-tradebooks helpful. Ability to operate or learn to operate cash register. Ability to work under pressure. Strong communication, interpersonal, and organizational skills. Ability to lift 50 lbs.

Minimum Bi-weekly Salary: \$457.09

Technical

Outside applicants for technical positions should submit an employment application, resume, transcripts and a list of laboratory techniques and equipment, or computer languages and hardware with which you are familiar. This information will be kept active for six months. For each position that you are qualified and wish to be a candidate for, submit a cover letter, including position title, department and job number, to Judi Pulkinen. Current Cornell employees should submit an employee transfer application, resume and cover letter. Outside applicants with training or experience in the following areas are encouraged to apply: biochemistry, chemistry, microbiology, electronics, physics and licensed animal health technicians.

TECHNICIAN, GR21 (T475) Veterinary Microbiology

Perform cell and tissue culture, virus growth and purification, and analysis of retroviral genes and gene products using a variety of procedures including electrophoresis, ultracentrifugation, nucleic acid hybridization and enzymatic and biochemical assays. Assist with supervision of undergraduate work-study students. Maintain clean lab, accurate records, supply inventory, and service of lab equipment. Order supplies.

Requirements: Bachelor's degree in Microbiology or related field. 1-2 years experience in virology lab. Knowledge of aseptic techniques, cell culture, and biochemical techniques. Send cover letter and resume to Judi Pulkinen by December 19.

Minimum Bi-weekly Salary: \$512.32

TECHNICIAN, GR21 (T477) Food Science

Assist in research on the shelf-life of milk and dairy products and post-processing contaminants. Responsibilities include use of a computer microbial monitoring system and isolation and identification of bacterial cultures from dairy products. Assess methods of measuring for post-processing contaminants. Assist in planning and conducting experiments.

Requirements: B.S. in Food Science, Dairy Science or Microbiology. 3-4 years experience in dairy-food microbiological analyses and skills. Familiarity with procedures for isolation and identification of bacteria. Some knowledge of computers and statistical analysis. Send cover letter and resume to Judi Pulkinen by December 19.

Minimum Bi-weekly Salary: \$512.32

TECHNICIAN, GR21 (T479) Biochemistry

Assist in biochemical aspect of cancer research including tissue culture and radioactive isotope work.

Requirements: B.S. in chemistry, biochemistry, or related area. 2-3 years related experience required. Send cover letter and resume to Judi Pulkinen.

Minimum Bi-weekly Salary: \$512.32

RESEARCH AIDE, GR19 (T478) Food Science

Provide technical support for research project on the improvement of milk and dairy products quality and shelf-life identifying quality problems and proposing remedial actions. Conduct experiments, analyze data, isolate, identify and maintain bacterial cultures and maintain laboratory equipment and supplies.

Requirements: B.S. in Food Science, Dairy Science or Microbiology. 1-2 years experience in standard microbiological analyses preferably on food and dairy products. Skills in microbiological analysis techniques. Send cover letter and resume to Judi Pulkinen by December 19.

Minimum Bi-weekly Salary: \$457.09

TECHNICIAN, GR19 (T476) Biochemistry, Molecular and Cell Biology

Perform experiments on lipid-protein interactions and calcium transport. Prepare lipid samples, perform spectrophotometric assays, synthesize phospholipids and enzyme catalysis.

Requirements: B.S. in Chemistry plus 2-3 years laboratory experience. Familiarity with biochemical methods necessary. Send cover letter and resume to Judi Pulkinen by December 19.

Minimum Bi-weekly Salary: \$457.09

RESEARCH ASSISTANT, (T462) Boyce Thompson Institute

Electron microscopy assistant to conduct studies on scanning and transmission electron microscopy of animal and plant specimens. Will work independently and be responsible for daily routine operation of EM service laboratory.

Requirements: Bachelor's degree in biology with courses in microbiology and biochemistry, or equivalent knowledge and experience. Training in routine electron microscopy techniques desirable. Contact Dr. Robert B. Granados, Boyce Thompson Institute, Tower Road, Ithaca, NY 14853. 257-2030.

Minimum Starting Salary: \$12,000

CHESS OPERATOR, GR24 (T253, T252) CHESS-Repost-2 Positions

Provide technical assistance to users on experimental radiation beams. Implement safety codes. Responsible for any malfunctions in CHESS system and software problems associated with instrument control. May assist in experimental programs. Evening and weekend hours required.

Requirements: B.S. degree or equivalent in technical field such as physics or engineering. Good mechanical and lab skills. Familiarity with vacuum equipment. Send cover letter and resume to Judi Pulkinen by December 12.

Minimum Bi-weekly Salary: \$607.21

Part-Time

PROGRAM COORDINATOR, I (PA472) Cornell Adult University

Responsible for all aspects of developing, advertising, administering, supervising, and evaluating the CAU summer youth program, including program staffing, facilities and support systems arrangements; budgeting; staff orientation, training and on-site supervision. Half time February through April, August and September; full-time May, June, July.

Requirements: Master's degree or equivalent in youth education or related field. Experience in youth recreational programming, particularly program design and administration. Must demonstrate exceptional ability to represent CAU in dealings with many constituencies including youth, students, parents, alumni, University faculty and staff, and others. Send cover letter and resume to Cynthia Smithbower by December 19.

VISUAL SPECIALIST I (PT4710) Center for Environmental Research

Produce artwork and prepare illustrations for technical documents, publications, posters, brochures, and slidesets in a natural resources field. Compile, design and edit various documents for technical and lay audiences. 20 hours per week.

Requirements: B.A. or equivalent. 2-3 years experience with computer graphics packages; knowledge of basic hydrology, soil science, crops and ecology helpful; layout experience and basic writing training required. Send cover letter and resume to Judi Pulkinen by December 19.

RESEARCH AIDE, GR22 (T471) Food Science

Conduct literature search concerning role of lipids and especially polyunsaturated fatty acids in nutrition and their effects on eicosanoids and physiological functions. 30 hours available.

Requirements: BS in nutritional biochemistry with knowledge of lipid biochemistry. Library research and word processing skills required. Demonstrated ability to summarize technical literature and aptitude for writing reports required. Submit sample writings, resume and cover letter to Judi Pulkinen by December 19.

Minimum full-time equivalent: \$539.94

OFFICE ASSISTANT, GR17 (C471) Residence Life

Provide secretarial and receptionist support. Make appointments; screen incoming correspondence; prepare and type reports and correspondence; maintain files; distribute mail; coordinate student clerical help; act as a resource person; daily contact with students and public; some financial functions. Regular, part-time Monday through Friday, 9:30 a.m. to 3:00 p.m. Full-time work during peak periods and summer months.

Requirements: H.S. diploma or equivalent.

Some secretarial experience. Medium typing. Strong organizational, interpersonal and communication skills. Knowledge of record and bookkeeping helpful.

Minimum full-time equivalent: \$409.53

DRAFTER, (G466) CLEARS

Assist in project work involving drafting, design and implementation of natural resource factor maps, and development of land use and resource information. Operate a Dizo blueprint machine, prepare materials for shipment, other duties as assigned. 20 hours per week; 6 month appointment.

Requirements: Basic working knowledge of drafting tools, working knowledge of map preparation preferred. Background in art, graphics, cartography, landscape architecture, natural resources, land use, or soils. Apply in person at the East Hill Plaza Employment Office, Monday-Friday, 9:00 a.m. - noon.

Temporary

TEMPORARY OPPORTUNITIES: Individuals qualified for temporary work and interested in clerical—secretarial: if you have experience or skills, and are interested in learning more about these opportunities, please call Lauren Worsell at 255-5226.

RELIEF STAFF NURSE (P4714) University Health Services

Screen and assess patient needs after hours. Provide nursing care for patients admitted to after hours service. 9 month casual position; 2 nights per week, 11:00 p.m.-7:00 a.m.

Requirements: NYS Nursing License. Graduate of accredited nursing school. Recent experience in hospital nursing with emergency background desirable. Send cover letter and resume to Cynthia Smithbower.

APPLICATIONS PROGRAMMER (T4710) Arts & Sciences

Program networked microcomputers for database applications.

Requirements: Associate's degree in data processing or equivalent. Knowledge of BASIC and information processing. Send cover letter and resume to Judi Pulkinen by December 19.

RESEARCH SUPPORT SPECIALIST (T474) Plasma Studies

Assist in fabrication, operation and maintenance of Light Ion Accelerators and Related equipment. Light machining, electronic and electrical assembly and performance of lab chores as necessary. Full-time, temporary for 3 months.

Requirements: H.S. diploma plus some coursework in drafting, mechanical design, machine tool operation, electronic systems or mathematics. Experience with machining, mechanical assembly and electronic assembly (soldering, etc.). Electronic trouble shooting and repair experience a plus. Ability to read and produce mechanical drawings. Send cover letter and resume to Judi Pulkinen by December 12.

INTERVIEWER (PA474) Rural Sociology

Interview representatives of various local new businesses and community and county economic development agencies in upstate New York. Full-time, temporary until June 30, 1987.

Requirements: Bachelor's degree in social science or business. Coursework in entrepreneurship, small business structure and changes, or related topics desired. Previous interviewing experience required. Ability to make appointments with respondents and own travel arrangements; personal typing skills required. Computer experience desired. Send cover letter and resume to Cynthia Smithbower by December 12.

TECHNICIAN (T473) Ornithology

Using amplex ATR-100 recorders, make copies of bird song recordings. Full-time, temporary until April 1, 1987.

Requirements: 2-4 years related experience and skills as an analog audio studio tape recorder operator. Requires well trained, sensitive hearing. Experience with animal sounds helpful. Send cover letter and resume to Judi Pulkinen by December 12.

COMPUTER ROOM MONITOR (T418) Hotel Administration-Repost

Oversee general operation of Computer Center; supervise student employees on night shift; repair equipment and software, maintain hardware and software; inventory; secure Center for 11:00 p.m. lock-up. 7:00 p.m. to 11:00 p.m. Friday through Tuesday.

Requirements: H.S. education. Experience with IBM Macintosh computers helpful.

Training will be provided. Some lifting of computers may be necessary. Send cover letter and resume to Judi Pulkinen.

ACCOUNTS ASSISTANT (C461) Veterinary Medical Teaching Hospital

Record daily charges for hospitalized cases in assigned clinic, prepare final vouchers at discharge, provide Saturday coverage as needed.

Requirements: H.S. diploma or equivalent plus some college with accounting or bookkeeping. Minimum 2 years accounting or bookkeeping experience necessary. Billing experience in a medical setting desirable. Call Laurie Worsell at 255-7044.

COMPUTER CONSULTANT (T432) Division of Nutritional Sciences-Repost

Serve as primary computer expert for international grant. Develop a microcomputer hardware and software package for data entry and analysis of a large data set. Full-time, 4 month position.

Requirements: Bachelor's degree required. Knowledgeable in micro computer hardware systems, including d-base III or r-base 5000 data management systems. Ability to purchase and set-up equipment, make adaptations to hardware and software, train users and write technical documentation. Travel to Bangladesh is possible. Send cover letter and resume to Judi Pulkinen.

OFFICE ASSISTANT (C449) Ornithology

Post, copy, mail, and file vouchers, orders and other paperwork processed through Cornell system (statutory and endowed). Assist in preparing deposits and reconciliations of some accounts. Other duties as assigned.

Requirements: H.S. diploma or equivalent. Knowledge of accounting-bookkeeping helpful. Cornell experience useful. Ability to learn quickly. Emphasis on accuracy, attention to detail required. Call Laurie Worsell at 255-7044.

SALES CLERK (C433) Ornithology

General sales duties at Crow's Nest Bookshop during weekends and holidays. Open up Laboratory, register sales, answer phones, secure Lab when closing, feed birds, answer basic bird questions, oversee Lab building. Occasional Monday nights (3 hours) during seminars, alternating weekends and holidays. Part-time, temporary until October 21, 1987.

Requirements: H.S. diploma or equivalent. Light typing. Previous sales experience required. Knowledge of birds helpful. Good interpersonal skills. Enjoy dealing with people. Call Laurie Worsell at 255-7044.

OFFICE ASSISTANT (C3914) Veterinary Medical Teaching Hospital

Answer telephones in Small Animal Clinic Communications Center, set up appointments using Hospital computer system, respond to routine questions, refer callers to appropriate staff member. Type letters to clients and refer veterinarians. Other duties as assigned. Part-time, casual. Monday through Friday, 3:00 to 6:00 p.m., Saturday, 8:00 a.m. to 12 noon.

Requirements: High school education or equivalent. Knowledge of medical terminology and medium typing essential. Must demonstrate strong organizational, interpersonal, and communication skills. Call in confidence to Laurie Worsell at (607) 255-7044.

Academic

EXTENSION ASSOCIATE, REGIONAL FARM BUSINESS MANAGEMENT SPECIALIST (A471) Cooperative Extension

Send letter of intent and resume to Sally A. Bartholomew, Cooperative Extension, 212 Roberts Hall, Cornell University, Ithaca, NY 14853.

Jobs listed here are prepared by Staffing Services. The list of current vacancies is part of the university's commitment to promotion from within, affirmative action, and equal opportunity employment.

Employees seeking transfer to other jobs should contact Staffing Services for appropriate procedures and forms.

Employment applications are available at Cornell's employment office, East Hill Plaza (Judd Falls and Ellis Hollow roads), 9 a.m. to noon Monday through Friday. Mail completed forms to Cornell Staffing Services, 160 Day Hall, Ithaca, N.Y., 14853-2801.

This listing also is on CUINFO, the university's computerized info the Information and Referral Center in Day Hall and other campus locations.

SPORTS

Nine members of the Big Red gridders were named to the 1986 All-Ivy first team and four of their teammates were named to the second team. Two others earned honorable mention accolades.

The league-leading Cornell defense, which allowed just 55 points against its Ivy opponents, sported five players on the first team: cornerbacks Mike Raich and Jim Frontero who intercepted 12 passes between them, defensive end Tom McHale, who led the team with 12 sacks, linebacker Ward Johnson, who recorded 71 solo tackles and 45 assists, and tackle Gary Rinkus who had 33 and 20.

They were joined by offensive captain Ken Johnson, who was named to the first-team offensive line for his second year in a row, running back Jeff Johnson, who gained 902 yards in rushing this season, kicker Tom Aug, who scored 46 points, and punter Erik Bernstein, who averaged 39.7 yards per punt.

Named to the second team were wide receiver Chris Hahn, offensive lineman Lee Rehman, defensive lineman Jim Knowles and Linebacker Tom Bernardo, the Red's defensive captain.

Quarterback Marty Stallone and wide receiver Shaun Hawkins received honorable mention.

Cornell's nine first-teamers were the most from any school. Penn had seven players named to the first team, Brown had five, Dartmouth had three, and Princeton and Harvard had one apiece.

Hockey

The men's hockey team is gearing up for "The Game" with Harvard on Dec. 7. The arch-rivals face-off at 2 p.m. in Lynah Rink. The Red are 1-3 in Eastern Collegiate

Athletic Conference (ECAC) play, while the Crimson stand at 4-0.

Cornell's 6-3 win over Toronto last weekend snapped a two-game losing streak for the icers. The Red scored six unanswered, come-from-behind goals after the Varsity Blues tallied three going into the second period.



The Red began its scoring blitz halfway through the second period when senior Dave Shippel blasted the right goalpost and the puck zoomed into the net. Senior John Parry scored next with a slapshot off the faceoff at 16:03 of the second stanza. Early in the third, Casey Jones scored his first collegiate goal on a 4-3 power play to tie the score at 3-3. Senior Pete Marcov tallied the game winner at 12:56 while two empty netters by Joe Nieuwendyk and Graig Donovan put the icing on the cake for the Red. Sophomore netminder Darin McInnis had a superb night in goal, stopping 35 shots, several of those coming on screened shots and breakaways.

Women's basketball

The women's basketball team puts its 1-1 record to the test this week as it travels to LeMoyne tonight and takes on Bucknell in its home opener at 7:30 p.m. Saturday evening. The Red is coming off a mixed weekend on the road in which it lost to St. Francis, 49-44, but rebounded to defeat Brooklyn College, 85-50.

Cornell will meet LeMoyne at 7 p.m. on Thursday. In 1985-86, the Red defeated its upstate rivals, 76-41, but the Dolphins look strong this year, returning several outstanding players from last season's squad. Cornell will be using a lot of man to man defense and will be running the ball to counter the

LeMoyne attack.

At the Red's home opener on Saturday in Barton Hall, the cagers will face Bucknell, a team that beat them, 76-69, in overtime last year. The Bison, a disciplined team with a balanced scoring effort, is highlighted by a highly structured offense. The game should be a close one, but the Red will have the home court advantage. Cornell will be led by senior tri-captains Tracy Sullivan, who scored a career high 22 points against Brooklyn College; Kathleen Geils, who led the team in assists last weekend; and Mary Browne, who needs just 114 more points to become the third woman in Cornell history to score 1,000 points.

The team is preparing several special events for the Bucknell contest in an effort to break the all-time single game attendance record for women's basketball. The squad will be raffling off Cornell men's hockey tickets, a one-month membership to the City Health Club and a Converse sweatshirt. Free painters' caps will be given away to the first 200 fans and the women's gymnastics team will put on a halftime show. The team's last contest before winter break will be against Colgate on Tuesday night at 7:30 in Barton Hall.

Other action

The men's basketball team travels to Notre Dame and Syracuse this week in hopes of upping its 0-2 record. The Red will play the Fighting Irish on Dec. 4 at 7:30, and takes on the Orange at 8 p.m. on Dec. 8.

The men's gymnastics team is at the Farmingdale Open on Dec. 5-6. The men's wrestling team is at the Penn State Invitational on the same dates.

The men's squash team travels to the Williams Tournament on Dec. 5-7 while the men's and women's swim teams face Columbia in New York City on Dec. 6.

The men's and women's track teams open their respective seasons at the Syracuse Relays on Dec. 7.

— Marcy Dubroff

Friday 12/5

Men's Junior Varsity Hockey - Welland Seniors, 8 p.m., Lynah Rink.

Saturday 12/6

Men's Junior Varsity Hockey - Pickering Junior B, 4 p.m., Lynah Rink.

Women's Basketball - Bucknell - 7:30 p.m., Barton Hall.

Women's Polo - Culver - 8:15 p.m., Oxley Polo Arena.

Sunday 12/7

Men's Hockey - Harvard, 2 p.m., Lynah Rink.

Men's Polo - Culver, 11 a.m., Oxley Polo Arena.

Tuesday 12/9

Women's Hockey - Colgate, 7:30 p.m., Lynah Rink.

Men's Junior Varsity Basketball - Colgate, 5 p.m., Barton Hall.

Women's Basketball - Colgate, 7:30 p.m., Barton Hall.

United Way pledges du

Cornell's United Way campaign efforts will draw to a close next week, and David Drinkwater, dean of students and chairman of the Tompkins County United Way campaign, urges members of the community to turn in their cards without delay.

The campus campaign has raised \$284,700 as of Nov. 26. That is about 65 percent of Cornell's \$390,000 goal.

"It is very important that outstanding cards be sent in now," Drinkwater said, adding that with widespread support, the campus can reach its goal in the final week of the campaign.

Young lambs grow with bulging muscles like weight lifters

Adding a new experimental chemical called cimaterol to the diet of young, growing lambs makes their muscles grow like those of weight lifters, resulting in more and dramatically leaner meat.

Cornell scientists who tested the chemical on lambs say that consumers may be able to buy lamb with significantly less fat in the future.

Donald H. Beermann, an animal scientist in the College of Agriculture and Life Sciences, made that prediction based on tests involving the use of the newly developed chemical on lambs.

Beermann said he is convinced that cimaterol could become a major tool for lamb growers, helping them to be more efficient in lamb production. He successfully produced leaner lamb by introducing small amounts of cimaterol to the diet of young, growing animals. American Cyanamid Co., an agricultural chemical and biotechnology firm, developed the chemical for use as a dietary supplement.

The chemical structure of this compound is similar to some of the naturally occurring hormones in animals, according to Beermann, who is the first university scientist in the nation to test the chemical on lambs.

The hormone-like compound was added to the test animals' diet in an amount equivalent to one ounce for each 100,000 oun-

ces of feed ingredients.

Beermann said the chemical consistently improved carcass yield as well as carcass composition (meat, bone and fat), resulting in at least 10 percent more meat with much less fat.

"The total amount of muscle in carcass increased by 20 to 30 percent, while the amount of fat decreased drastically," Beermann said. "Most of the increase in muscle was in hind legs, up by 19 to 33 percent in both experiments, while loin muscle areas increased in size by 25 to 30 percent."

In still another experiment, Beermann tested the effect of fish meal on lambs' muscle growth in cooperation with Douglas E. Hogue, also an animal scientist at Cornell. Fish meal was substituted for a portion of soybean meal, which usually represents about 12 percent of the diet designed for young lambs raised for slaughter at the age of about 10 months. Some of the animals were fed both cimaterol and fish meal.

As with cimaterol, fish meal changed carcass characteristics boosting muscle growth by 16 to 19 percent, but it had no effect on fat accumulation, Beermann said.

"Interestingly," he noted, "the magnitude of the response in hind-leg and foreleg muscles was similar to those observed in cimaterol-fed animals. Wholesale leg weights as well as loin eye areas also

increased."

"These effects, however, were not as large as those observed with cimaterol," Beermann pointed out. "Both cimaterol and fish meal have been shown to improve muscle growth significantly, but only cimaterol reduced fat buildup."

Just how cimaterol brings about these changes remains a scientific mystery.

"What's apparently happening is that more nutrients that are normally used for fat formation in the body go to muscle development," Beermann theorized. "It may work like bovine growth hormone, which mobilizes more nutrients for milk synthesis in cows."

He said that it may be several years

before this chemical will become available for commercial use because much more research is needed to find out how the compound works in animals. Thus, research is continuing at Cornell to gain a better understanding of the mechanisms involved in cimaterol-induced muscle growth in growing lambs.

Would this chemical be effective in producing leaner beef? The Cornell scientist is optimistic about that possibility.

"Based on studies conducted at American Cyanamid, we would expect cimaterol to be effective in beef cattle as it is in lambs," Beermann said.

— Yong H. Kim

Six state studies of wildlife will be conducted by Cornell

Suburban raccoons, city falcons and anomalous fish are among the subjects of Cornell studies to be funded next year by taxpayer contributions to the state's Return a Gift to Wildlife program.

Six of 31 wildlife projects around the state in 1987-88 are based at Cornell, according to an announcement by Henry G. Williams, commissioner of the state Department of Environmental Conservation, which administers the program. A total of \$1.7 million, raised from voluntary contributions on state income tax returns, will be distributed.

Two of the projects will be conducted from the Cornell Seatuck Research Program at Islip, N.Y., where the Laboratory of Ornithology studies wildlife in a typical suburban setting.

With \$26,500 in taxpayer contributions, researchers will study the biology and behavior of a suburban raccoon population to determine how they interact with people and other wildlife species. The Long Island project hopes to determine the feasibility of relocating individual raccoons to reduce nuisance problems and the part raccoons play in transmitting communicable diseases.

More welcome animals, the terns and plovers that visit Long Island waters, will be surveyed by biologists from Seatuck. A grant of \$14,800 will aid development of an islandwide data base and lead to a management plan for endangered and threa-

tened species: the roseate, least and common terns, as well as the piping plovers.

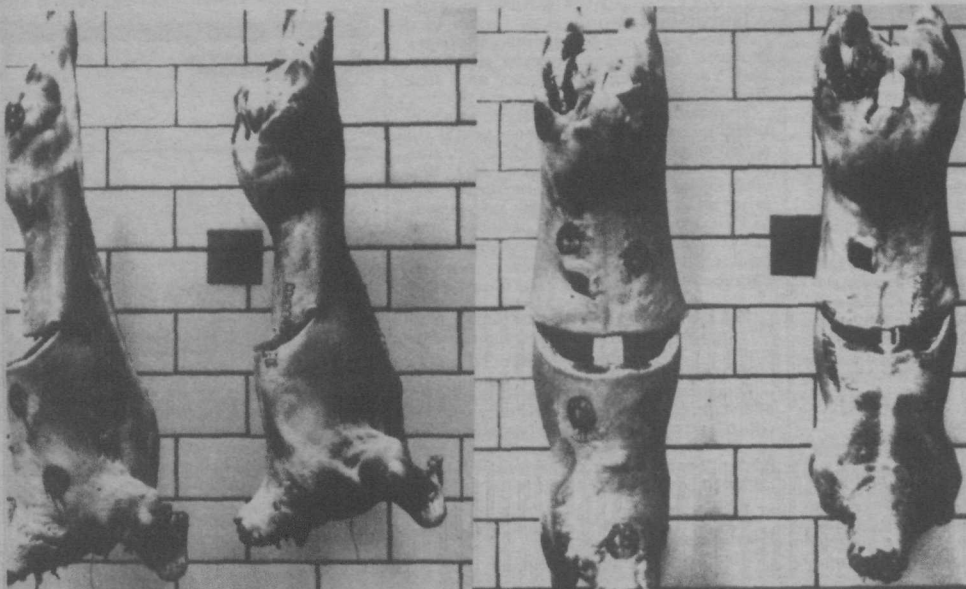
Some \$40,000 will be granted to the Cornell-based Peregrine Fund, which provides captive-reared falcons for release in the City of Albany and the Adirondack Mountains. The Peregrine Fund project, which is conducted in cooperation with the Department of Environmental Conservation, has been responsible for restoring the endangered birds to nesting sites around the state, including New York City.

A fish pathology laboratory at the College of Veterinary Medicine will get \$110,000 to continue investigation of anomalies in fish. The program seeks to identify the cause of abnormalities, such as tumors, that may be caused by chemical toxicants in state waters.

Two other Laboratory of Ornithology projects will receive assistance from taxpayers. A grant of \$22,000 will help ornithologists analyze and interpret data about breeding-birds collected since 1966. By identifying population trends, researchers hope to protect species that are disappearing from certain areas of the state.

An additional \$24,000 will go for publication of the state's Breeding Bird Atlas, which compiles information on 232 species found by volunteers in cooperation with the New York State Federation of Bird Clubs.

— Roger Segelken



Young, growing lambs on a diet containing small amounts of an experimental chemical called cimaterol result in carcasses with more muscle, right, than those from control animals, left.

Networking

A Cornell Newsletter Published by Employees for Employees

Volume 7, Number 15

Thursday, December 4, 1986

Kathleen Donovan December Dedicated Service Award Winner



Kathleen Donovan has served as coordinator for the Disabled and Vietnam Era Veterans for almost seven years. Katie is responsible for seeing that the needs of all disabled students, faculty, and staff and veterans are met. When Katie was hired, there were approximately 8 disabled students; during the academic year of 1985-86 there were 78. Along with the increase of students, the number of disabled faculty and staff and veterans has also increased.

There are several different aspects of Cornell that Katie deals with to ensure the success of disabled students, faculty and staff. Some examples are:

Construction: Katie reviews the blueprints of construction projects on campus to see that there is accessibility for wheelchairs, an elevator, an accessible bathroom, a reachable telephone, etc.

Disabled Students: For students in wheelchairs, Katie checks that their classes are held in accessible buildings, that laboratories are accessible, dorms, and off campus housing have accessible features, i.e., grabbars, clothes racks in closets are low enough, wide enough doorways, etc.

In the case of a hearing impaired or deaf student, Katie ensures there are sign-language interpreters (if needed), notetakers, that professors and teaching assistants don't have beards if the student lip reads, dorms are equipped with special lighting features to let the student know if the fire alarm, telephone or doorbells ring, etc.

If a student is blind, she makes certain that they have notetakers, readers, and tutors; proper guide dogs, canes, tape recorders, etc. She also deals on a one-to-one basis with learning disabled students assuring that their individual needs, such as untimed tests, oral tests, etc., are met.

Traffic Bureau: Katie continuously is

contacting them for disabled parking spaces or special permits for disabled students, faculty and staff.

Disabled Employees: She ensures that disabled employees receive reasonable accommodations to permit them to carry out their job responsibilities. She also encourages them to further their careers.

Financial Aid: Katie contacts them to see if the disabled student has sufficient funds for school and to check if they have an agency sponsor, such as Commission for the Blind or Office of Vocational Rehabilitation, to see how much they will receive to fund their readers, notetakers and tutors.

Student Employment: The jobs for readers, notetakers and tutors are posted through Student Employment to hire many workstudy and nonworkstudy students.

Community Involvement: Over the seven years that Katie has been in Tompkins County, she has served on several community organizational committees and held various committee offices. Currently she's serving on the Challenge Industries Board of Directors.

It would be impossible to mention every aspect of Katie's job since she so often does more than is required of her to see that life at Cornell runs as smoothly as possible.

We, the undersigned, would like to nominate Kathleen Donovan for the Dedicated Service Award for her seven years of dedication, caring, patience, loyalty, tolerance, endurance and sense of humor.

Pamela D. Clark

Karen Hunter

Lillie McLaughlin

Joan R. Egner

Wendy D. Kisson

Bev Dobbin

Susan M. Hoy

Paige V. Ireland

Don Johnson

Mary Ward

A United Way Letter to Members of the Cornell Community



United Way
of Tompkins County

A United Way Letter to members of the Cornell community from Lee SNYDER

As members of the Cornell community, you have done many great things over the years to make Tompkins County a very special place to live and have made this a community for which we can all give thanks.

One of the most caring acts on your part has been your annual support as volunteers and donors for our United Way which now salutes all of you by saying, "Thanks to you, it works for all of us."

Through our united campaign, we have helped dozens of local agencies who are dependent on United Way funding to provide vital human services for more than 25,000 among us annually.

The Cornell United Way campaign is now at 65% of its \$390,000 goal. Success is in our hands. By returning your pledge card promptly, we can achieve our goal early in this holiday season. The County Campaign officially finishes on December 10th. So, I urge you to make sure that we have your pledge in hand by December 8th.

If we have somehow missed you or you need a new pledge card, feel free to use the pledge card printed in this issue of

Networking. Be sure to include your department name. If you know your check location number, that would also be useful. Please return your pledge card — to my attention — at 130 Day Hall.

Your annual gift has helped make ours a very special community, one that is able to maintain virtually every sort of human service — from rehabilitation to recreation. Because of your generosity, last year we were part of a countywide campaign that exceeded \$1,000,000.

Now, in the face of reduced federal funding for human services, we are challenged to do even better.

It is very appropriate, as we think about our individual blessings this holiday season, to think of those around us who might need help this coming year from the United Way. Let's 'Give it All We've Got' to keep the United Way-funded services working — and available — when we, or our neighbors, might individually need them.

Thank you for caring, and by signing your card, showing that you care. We're all dependent on each other to make our campaign a success in its closing days.

Please, remember as we begin the holiday season that your United Way needs you now...let's all 'Give It All We've Got.'

1987 Social Security Tax Changes

Effective January 1, 1987 the taxable wage base for Social Security purposes will increase from \$42,000 to \$43,800. The taxable wage base is indexed to increases in the average national earnings.

The 1983 Social Security Amendments legislated changes in future tax rates. In 1987 the tax rate for employees and employers will remain at 7.15%.

This means that the maximum tax will go from \$3,003 to \$3,131.70, an increase of \$128.70. The amount paid by each employee is matched by an equal amount from the employer.

Around Cornell: Meet Pat Haskell

by Ann Marcham

It's 6:00am when Pat Haskell stands at the entrance of a laboratory in the College of Veterinary Medicine. As a custodian, he must clean the lab but avoid bumping into very sensitive equipment. At the same time, he is alert to radioactive materials and the complicated chemicals of modern technology. Of course, he maneuvers through a mine field of creative clutter carefully developed by faculty and graduate students.

Pat Haskell could be a juggler, but he isn't. However, it takes the same talent to keep in balance his work as a custodian, his hobby of weight lifting and his studies in computer programming.

At 2:30, Pat is on his way to the weight lifting room at Teagle. He works with free weights to develop muscles and spends two hours, six days a week, at the hobby. This form of exercise contributes to his enjoyment of softball in the summer and basketball in the winter.

With the workout completed, Pat heads for home in Groton and his supper — his mother's lasagna if he's lucky. Since Pat comes from Groton, he is very aware of the hazards of pinning his plans on one career. He wants to prepare for the future.

With this in mind, he studies in evening classes at Tompkins Cortland Community College. This term, it's computer programming but in the past he has studied English. Thus, while he is demonstrating that he is a reliable, conscientious worker during the day, he is



developing new skills. Excited about the possibilities, Pat dreams of becoming an apprentice electrician. And, he adds, "I mustn't forget to thank my parents for helping me through all of this."

Empire Plan Update

The State of New York has recently informed Statutory Employee Benefits that it is once again necessary to increase health insurance rates due to the continued escalation of overall health care costs.

The 1987 biweekly employee contribution rates for the Empire Plan are as follows:

	26 Pays	21 Pays
Individual	4.63	5.73
Family	18.02	22.31
Dual Eligibility	-0-	-0-

The new rates for employees enrolled in Health Maintenance Organization (HMO) options can be obtained from Statutory Employee Benefits, 5-4455.

The new rates will go into effect as of the pay period beginning December 4,

1986, and will be reflected in the exempt paychecks issued December 18th and the nonexempt paychecks issued December 24, 1986.

Updated participating-provider directories will be distributed shortly through departmental payroll clerks. Since the new directories reflect provider participation status as of July 25, 1986, employees are urged to verify participation status either directly with the health care provider or by using the toll-free participating provider line at Metropolitan, 1-800-537-0010.

Please note: The directory for the Western Region (including Ithaca) lists Surgical Associates in Ithaca as a participating provider group. This practice group has not agreed to participate in the Empire Plan.

If you have questions or would like additional information on the Health Insurance Program for New York State employees, please contact Statutory Employee Benefits, 5-4455.

brown bag luncheon

Exercise Your Free Speech

Be Heard at BBL

WHAT: BBL - beverage and light snack provided. Sponsored by Employee Elector Trustee and Employee Assembly.

WHERE: 701-702 Clark Hall

WHEN: Wednesday, December 10, 1986 at 12:00 noon

WHO: The Presidential Commission on Freedom of Speech and You

WHY: To hear your views and to answer questions

HOW: Dialogue

President Rhodes has appointed a Commission on Freedom of Speech. It is charged to:

1. Determine if an additional policy statement is needed regarding responsibilities and rights of members of the Cornell community.

2. Recommend possible additional guidelines regarding conduct of community members in relation to the character, time, place and duration of large scale demonstrations - also in relation to disruption of meetings.

3. Consider these matters in light of the need to preserve peace and good order in the campus community.

The Commission is grappling with these kinds of questions:

1. How does one define unacceptable acts while providing a guarantee to preserve the rights of individuals and groups to express their views?

2. Where should the line be drawn between what is unacceptable behavior and what is freedom of speech?

3. Who draws the line?

4. Should a set of hypothetical cases be established as a set of guidelines for the purpose of defining the difference between the legitimate exercise of free speech vs. the infringement on rights of others?

5. Is there a responsibility on the part of educated and educable people to set an example for civil behavior?

6. These are but a few of the questions to be asked and answered.

Come and express your views on this important issue. It affects every segment of the Cornell community. Commission members will be present to listen to you and to try to answer questions.

FOCUS

You and the Employee Assembly

by Louise B. D'Amico, nonexempt Assembly member

So, you don't feel that a certain policy is fair or equitable! What recourse do you have except to live with it? The answer is "your" Employee Assembly!

At present there are several dedicated employees meeting twice monthly on the 1st and 3rd Wednesday of every month at 12:15pm in B-8 Roberts Hall to try to make your position as an employee a happier experience. Any employee is welcome to attend an Assembly meeting. In fact, we wish more would!

I'm not saying that we are capable of changing policy but we are a sounding board for you and do have input into policy making decisions. That is what the Employee Assembly is all about.

We welcome employees who have concerns, recommendations, or solutions that would benefit all employees. We

have as part of our agenda "Open Forum" where concerns that affect employees in general can be made. This is not the place to air individual grievances. These must go through the University Grievance Procedure. We do, however, look into problem areas and call these to the attention of the administration along with our recommendations.

Employees who are armchair critics never offer solutions to problems - they just complain. Your Assembly is there to protect your interests but we are only as effective as the people we represent. Won't you help us help you by getting involved? Try it, you might like it!

If you are not able to personally attend one of our Assembly meetings, you can contact your Assembly representative or the Assembly office, and make known your suggestions, recommendations, concerns, or solutions. The more involvement we get from "you" the more action we can take in "your" behalf.



The Advancing-Distancing Dance

When tension and anxiety become a problem all of us exhibit behaviors which sometimes get us into trouble. These behaviors are a normal response to tension.

On the one hand, before we can talk about whatever the tension is, we may need to "distance" from it until we have time to think about it. Distancers are very creative about how they do this. They may go to sleep, watch TV, read a book, or just not talk until they settle down.

Conversely, "advancing" is done by talking. Some of us need to talk about the problem we are encountering and often feel we need to talk about it now! We all exhibit some of each behavior but we behave predominately in one way or the other.

Since these behaviors are both normal it would seem as if advancing and distancing shouldn't cause a problem. Unfortunately, it does, because we usually find that advancing and distancing becomes a dance that people do all the time.

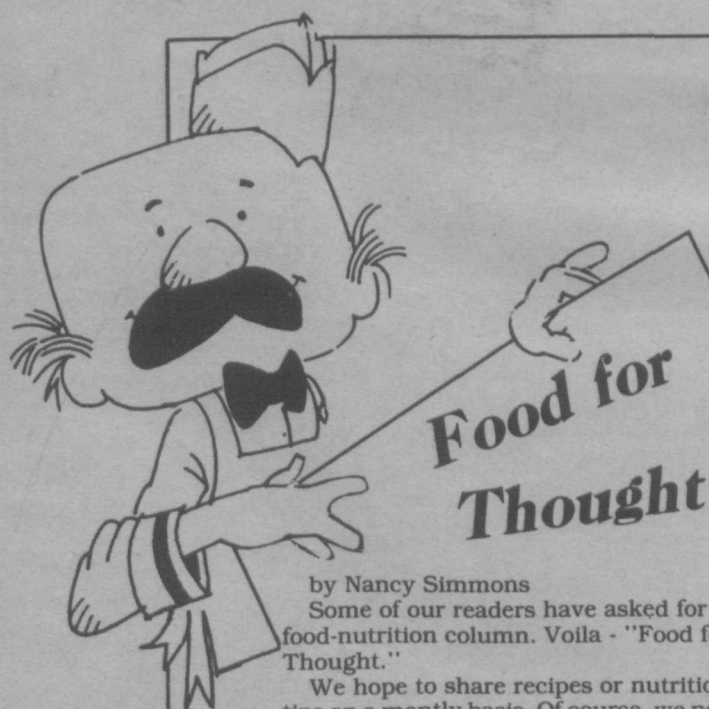
Imagine a couple, calm and happy until some kind of tension arises. The distancer automatically pulls away to take

time to think about what is happening. The advancer, feeling more tense, wants to talk about the situation and often expects a response from the distancing party. The chase is on.

Often the person who is distancing feels guilty about not being able to calm down the advancer. The advancer begins to feel rejected and finally gives up on conversation and gets busy doing something or talking with someone else. When the distancer is left alone for a while, he or she may calm down and be able to think things through without being pursued. At this point the distancer may return to find an angry, rejected advancer who may, in fact, wish to ignore the distancer's sometimes nonverbal cues for closeness.

Hopefully both begin to calm down and are able to talk calmly about the anxiety or tense situation.

If the advancing-distancing dance is becoming a problem or you are having any other stress which seems overwhelming, give us a call at the Employee Assistance Program (273-1129).



by Nancy Simmons

Some of our readers have asked for a food-nutrition column. Voila - "Food for Thought."

We hope to share recipes or nutrition tips on a monthly basis. Of course, we need your help in supplying us with information for the column.

Please send your favorite recipes, nutrition tips or comments to: Nancy Simmons, 726 University Ave. in campus mail.

During the day, Dr. Douglas McGregor is the director of the James A. Baker Institute for Animal Health, a part of the New York State College of Veterinary Medicine at Cornell. There he is noted for his work with infectious diseases and the immune system. However, in the evening upon arriving home, Dr. McGregor becomes a

chef and delightful aromas of sauteed onions and bouquet garni fill the air.

Dr. McGregor, Canadian born, received his bachelor's and medical degrees from the University of Western Ontario and a doctor of philosophy degree at Sir William Dunn School of Pathology at Oxford. Dr. McGregor came to Cornell in 1976. Perhaps his cooking talents arrived with him, but he may have been somewhat influenced by his nephews who attended the School of Hotel Administration.

The following recipe has been created by Dr. McGregor, something he put together one evening upon arriving home from his laboratory. He wishes our readers a bon appetit.

Douglas D. McGregor's Curried Lobster Bisque

4 T. butter
1 tsp. fresh ginger, finely chopped
1 spanish onion, finely chopped
2 carrots, finely chopped
1 peeled celery branch, finely chopped
4 T. all purpose flour
1 T. curry powder
6 c. chicken stock
Bouquet garni (1 large bayleaf, 2 sprigs parsley, 2 sprigs thyme)
1 T. tomato paste
1 large green apple, coarsely chopped
8 oz. lobster meat, coarsely chopped
Salt and freshly ground pepper
2 T. chutney, coarsely chopped
1-2 c. heavy cream
Melt butter in large saucepan. Add ginger, onion, carrot and celery. Saute until onion is soft.

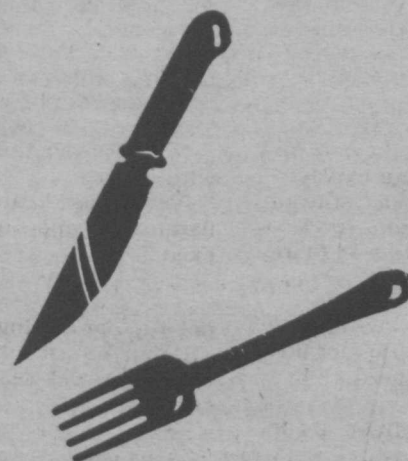
Add flour and curry powder. Cook over

moderate heat for 2-3 minutes. Add stock and stir well until smooth. Bring to boil. Add bouquet garni, tomato paste and apple. Lower heat, cover pan and simmer gently for 1 hour.

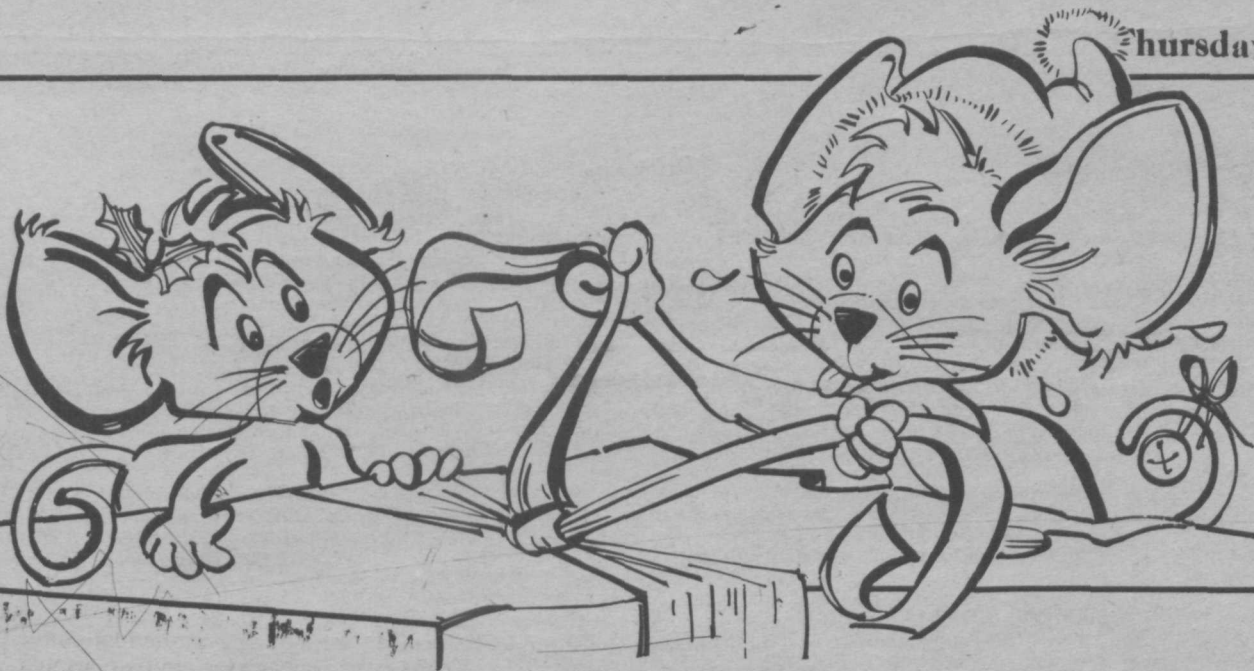
Remove from heat, discard bouquet garni and allow soup to cool. Pour soup through coarse sieve into a clean saucepan. Add lobster meat. Season with salt and pepper to taste. Return soup to stove and simmer for 30 minutes, stirring several times.

Add chutney and cream. Continue simmering for 2 minutes with frequent stirring.

Add to soup plates and garnish with finely chopped fresh parsley.



CRC News



Children's Christmas Party and Holiday Ice Capades Planned

During the month of November, CRC sponsored two fun filled events - Buffalo Bills football and a Reading, PA shopping spree. By all reports, the Bills game was great fun. The Bills Stadium was sold out and the CRC group certainly enjoyed their "almost front row" seats for viewing the game and the Buffalo Bills Cheerleaders!

Donna Vose reports the following on the shopping spree:
"With Christmas fast approaching, presents must be bought, so at 6:00am on Saturday, November 8, 38 eager women departed for Reading, PA for shopping and charging. It was a rainy, cloudy day, but nothing was going to dampen the shopping spirit.

Our first stop was at Heister's Lane. Here, everyone got a small taste of shopping and of the bargains yet to come. Our second stop was at Vanity Fair - and what a crowd. There were at least 100 buses and thousands of shoppers. Dot Messenger, our group leader, found out later that the day we were there was the busiest shopping day of the year. You really know how to select a good day, Dottie!

In spite of the crowd, many purchases were made and all too soon it was time to board the bus and head to our final shopping destination, the MOM Mall in Morgantown. MOM Mall was not as crowded, the pace slowed, and we were able to really get down to serious business. At 7:45pm, 38 tired ladies again boarded the bus for the long trip home.

A good time was had by all, and we cer-

tainly returned home much poorer than when we left. Thank you Dottie for a job well done. Our bus driver, Don Bordonet, did an excellent job and we thank him for a safe and prosperous trip, and we look forward to another shopping spree next year."

Ice Capades: Call today to reserve a place for the Ice Capades holiday show on December 13th. The price is \$15 per person and includes bus and show. The deadline for sign up is tomorrow December 5th! Act now!

Children's Christmas Party: This event will be held on Saturday, December 20th from 1-2:30pm in Helen Newman Lounge. All children and grandchildren of CRC members are welcome to attend. Santa will be there with a gift for each child. Please contact the CRC Office (5-7565) if your youngster would like to attend (we need a head count). Also, if you can make or purchase cookies for this event, please let Peggy, in the CRC Office, know.

Stocking Stuffers: How about a CRC cap or T-shirt? We have plenty in stock in the CRC Office, 165 Day Hall. The prices are: cap \$4, T-shirt \$5, long-sleeve T-shirt \$6. Stop by today.

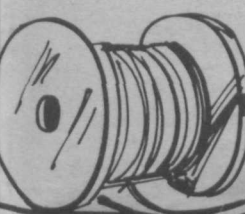
Acapulco - March 23-30, 1987: For the price of \$575, this trip includes: round-trip airfare from Syracuse, accommodations for eight nights and seven days at the Acapulco Ritz (pending confirmation), and American Express tour escort to help plan activities while in Acapulco, a Bay cruise, and a predeparture party. A

\$100 deposit is required with registration. Deadline for sign up and date for final payment is February 6, 1987. Many people have expressed interest in this trip so don't delay and get your deposit in now.

CRC Park: The final work party of the fall was held on Saturday, November 15th. The work crew was able to start shingling one of the pavilions and they have winterized the other. We still need your financial support for work to be completed in the spring of 1987. Call the CRC Office if you need a payroll deduction form.

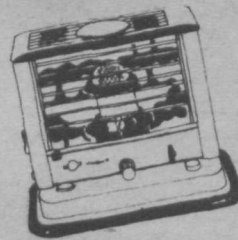
Volunteers are needed to help at the BBQ chicken dinner to be held prior to the Basketball Employee Day on January 24, 1987. A work crew will be needed to help cook chicken, and two more crews will be needed for set up-clean up and serving. Call the CRC Office (5-7565) and add your name to the volunteer list.

BJ Wholesale Club: With the holidays approaching, you might be interested in obtaining a free membership in the BJ Wholesale Club. Applications are available in the CRC Office. You must be an employee of the University to qualify. This organization is a subsidiary of Zayre Corp. and is a members only, cash-and-carry wholesale warehouse. You pay only 5% above the listed wholesale prices. They offer many items including major and small appliances, sporting goods, hardware, jewelry, furniture, cameras, toys, clothing, and more. Contact the CRC Office if interested.



Life Safety Lines

Kerosene Heater Safety



If you have purchased and are using a kerosene heater in your home or place of business, you should take precautions against a number of serious hazards. These dangers include:

Fire or explosion. Fire could be caused by operating the heater too close to furniture, drapes, or other combustibles, knocking over a lighted heater, or by accidentally igniting fuel when filling the tank. Explosions could be caused by use of the wrong kind of fuel, or by operating the heater in an area where there are combustible fumes.

Burns. Burns can be caused by direct contact with the heater, or by ignition of combustible clothing. Children especially should be kept at a safe distance from operating heaters.

Asphyxiation. Kerosene heaters consume oxygen as they burn. If they are operated in a small room or in an inadequately ventilated area, oxygen in the air could be reduced to a dangerous level. Reduced oxygen supply could lead to incomplete combustion of fuel and the production of carbon monoxide. Carbon monoxide is an odorless, colorless gas which in sufficient concentration, or if breathed over a period of time can kill without warning.

Indoor air pollution. In addition to carbon monoxide, kerosene heaters can emit such pollutants as carbon dioxide, nitrogen dioxide and sulphur dioxide. Breathing these substances can create a risk, es-

pecially to such people as pregnant women, asthmatics, individuals with cardiovascular disease, elderly persons and children.

These hazards can be minimized or averted by carefully following the manufacturers instructions for use of kerosene heaters, and by adopting other common sense safety measures.

You should also be aware that kerosene heaters are still illegal in some areas. Before you buy one check local codes and ordinances as they apply to your area. Always keep these safety tips in mind:

NEVER use gasoline. Even small amounts of gasoline or other volatile fuels create the risk of flare up and fire.

NEVER move, refuel or service the heater when it is operating or hot.

NEVER leave the heater unattended while in use.

NEVER use heater in areas where flammable vapors or high dust conditions exist.

ALWAYS use 1-K grade kerosene. Cloudy or discolored kerosene may cause pollution or sooting.

ALWAYS use a blue container intended for and clearly marked "kerosene."

ALWAYS use your heater only in well-ventilated areas. Keep the door to an adjacent room open. If air gets hot or stuffy, turn heater off. Sensitive persons with circulatory or respiratory disorders

should consult a physician about use.

ALWAYS place heater more than three feet from materials such as furniture, clothing and drapes and out of high traffic areas, doorways, hallways or drafty areas.

ALWAYS extinguish heater before sleeping.

ALWAYS use heater in accordance with state and local regulations, ordinances or codes.

Remember, follow the manufacturers

Leadership Leads

You and Me

The great Middle Eastern philosopher, Kahlil Gibran, asked his friend, "If you were to describe the five most important things in the world, what five words would you use?" She replied, "God, love, life, nature, beauty."

Ah, but you left out the two most important - nothing has meaning without YOU and ME."

Regardless of our religious persuasion (or lack of) the message of this holiday season is LOVE, GIVING, SHARING, and CARING.

In the work place how much more pleasant each day would be if we could extend that message throughout the year! When we reduce each relationship to a matter of YOU and ME it becomes

instructions when using your heater and keep in mind these safety tips, and most of all allow common sense to be the rule when using not only kerosene heaters, but all types of portable heaters.

Life Safety Lines is a presentation of Cornell University Life Safety Services in cooperation with Networking. All questions and comments should be addressed to L.S.S. E. Thurston, Cornell University Life Safety Services, Tobboggan Lodge, Cornell University.

more obvious that the relationship should be a pleasant one. This is true whether it is from supervisor to employee or vice versa or between fellow employees.

When we give, we live. Life is about YOU and ME.

Campus Store Schedule

The Cornell Campus Store will be CLOSED December 24th and January 2nd.

We wish you and your staff a Happy Holiday.

Unclassified Ads

- 1. Please submit all unclassified ads to Networking Unclassifieds, 420 MVR - no phone calls please.
- 2. For our information your name and campus phone number 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.
- 4. Please limit your ad to 30 words or less. If an ad is longer than 30 words it may be shortened by the Networking staff.
- 5. Unclassified ads are for nonbusiness purposes only.
- 6. The deadline for the December 18th issue is December 8th.
- 7. If an error appears in your ad, please resubmit the ad to be published in next available Networking.

For Sale

1982 VW Rabbit, exc cond, 50k miles, asking \$3500. John 5-5936 or 539-7406.
1981 Dodge Colt hatchback, fwd, AM-FM cassette, 4-spd, 70k miles, \$2200 OBO. 5-3206 or 594-2777.
1979 Mercury Capri, 54k miles, mint cond, loaded, \$3500. 277-5657 after 5pm.
1978 VW Rabbit, well used and dependable, good tires, runs good, exc winter car, \$500. 274-2213 or 5-3767 days.
1976 Nova, 120k miles, little rust, \$350-offers, price reduced; 1975 Olds Starfire, 2 extra rims, 4 extra mag rims, body-engine very good, \$575-offers. 564-9375 anytime.
1975 Chevy pickup truck, 65k miles, rusty but dependable, \$600. 533-7136 or 5-8008.
1983 Yamaha 650 Turbo, new in 1985, passport radar detector, bell star and Yamaha helmet and two Tracey saddle bags, \$2500. 659-7484 after 5pm.
Two 13" studded, bias, snow tires, mounted and balanced on rims, fit Olds Starfire, \$75. 844-4643 after 5pm.
Round-trip airline ticket, Ithaca to Florida, Dec 17-Dec 31, \$219. 277-5215.
Two United Airline tickets good anywhere in the continental USA, 24 hour waiting period only, trip must be completed by January 8, 1987. \$275 each or 2 for \$500. 272-3359.
Soapstone woodstove (woodstock), \$100 firm. 272-0949 eves.
Daisywheel printer with tractor feed, amber hi-resolution monitor (both used less than one hour); Farberware rotisserie, \$15; Schwinn

LeTour 10-speed, 25" frame, \$60; Honda Urban Express moped, under 900 miles, \$300. 272-7923.
Bang & Olufsen Beocenter 2200 combined AM-FM radio, record player, cassette deck with antenna, \$850 like new. Alex 273-1638 or message at 5-3191.
Xerox Model 1045 Coin-Op, exc cond, 9 months old, transferrable maintenance contract through Xerox Corp, \$5000. Michael Pickering 5-6220.
TRAQ 60mm refractor-telescope, \$65. 5-6646.
Women's designer leather jeans, wine color, worn once, size 8-10, \$50 (Christmas is coming). 257-2980 after 5pm.
Seven piece modular sofa, \$350; double bed, mattress and frame with headboard and footboard, \$40; vacuum cleaner, \$25; oven hood, \$30. 277-5215.
Piano, Everett Studio model, blonde finish, exc regulation, appraised at \$1800. John 5-5936 or 539-7406.
Black vinyl sleep sofa, \$50; twin bed choice of frames (plywood trundle, wheels), \$25; sheetmetal for under woodstove, 14" plymouh wheels, 1 bias tire; warm coats 2.50-25; new shoes, 6 1-2. Pat 5-5479.
Rosewood 4-drawer chest with legs, 41.5" x 20" x 31.5" (high), exc cond, \$150. 272-0568 or 5-5265.
Used Formica contemporary kitchen cabinets in very good cond, also countertop and wall oven and gas cooktop. Judy 5-4503.
Mediterranean glass topped hutch in exc cond, oval table and six chairs, \$450. Judy 5-4503.
Used Axman-Anderson oil-fire hot water boiler, with coil for domestic hot water. 539-7629 after 5pm.
Cargo loft bed with regular twin size mattress, additional platform, matching bookcase, and ladder. Almost new, \$200. 5-2575 work or 257-5914 home.

Ski rack, high bar stool, free weights - bar bell, humidifier, sewing machine, large jade plant, chest freezer, antique trunk. 272-6086 or 5-3214.
Rowing machine (Amerec), exc cond, \$150. Nancy 5-6199.
White Westinghouse electric range-oven. 5-6646.
Dryer machine (Jcpenny), very good cond, \$100; washer machine with some problems, \$20 or free with dryer, both avail by X-mas; white crib with mattress, \$40. Pedro or Nanci 257-0614 days.
75-80 bales last year hay, you clean up barn free; 3-4 size bed and box springs, free; child size english saddle complete, \$80. 273-0940.
Heavy-duty collapsible wire crate for large dog, 28"W x 48"D x 36"M, almost new, \$70; car dog carrier fits car or wagon, keeps pet away from driver, almost new, \$25. Linda Rhodeo 3-3086 or 539-6368 eves.
Handsome yearling gelding, sired by black stallion (quarter horse), \$500-offer; Pinto pony mare, 44", rides-drives, great with kids, \$325-offer, will hold until Christmas. 564-9375 or 5-8545.
Collie pups, AKC registered, shots and wormed, somewhat housebroken, lead trained, ready to go to good homes, sable and white also tris. Some adults too. 347-4860 eves best.

Lost

Women's gold wedding ring, \$25 reward. 272-5147 after 5pm.

Found

Outside Bradfield and Emerson Hall, ladies watch, owner can have by identifying. 5-5452.

For Rent

Avail. Jan-Aug, 1987. Custom-designed house on 17 acres, 5 miles east of Cornell, near Brooktondale, furnished, 3 bdms, many attractive features. 5-4095 or 539-6558.
Two bedrm furn. apt, off North campus, two bathrooms, garage, 15 min walk to campus, on two bus routes, from Jan-Aug, 1987, V-quiet and nice area, \$475 per month. Manoj Chalam 5-4257 (o) or 257-4261 (h).

Carpool

Really need ride for winter months from Five Mile Drive (13A) to Malott Hall, 8-4:30. Ruth 5-7599.

Unclassified Ad
Address Change
Send all ads to Donna
Updike, 420 MVR
No phone calls please.

Networking
Deadlines

1986 Deadlines

December 8 for December 18 (holiday issue)

Deadlines for 1987

January 5 for January 15
January 19 for January 29
February 2 for February 12
February 16 for February 26
March 2 for March 12
March 16 for March 26
March 30 for April 9
April 13 for April 23
April 27 for May 7
May 11 for May 21
May 25 for June 4
June 8 for June 18
June 22 for July 2
August 3 for August 13
August 31 for September 10
September 14 for September 24
September 28 for October 8
October 12 for October 22
October 26 for November 5
November 9 for November 19
November 23 for December 10
December 14 for December 24

Update on Employee Attitude Survey

A reminder to those of you who were chosen to respond to the employee attitude survey. Please take the time to fill in your survey and return it in the enclosed, preaddressed, stamped envelope provided. SRI reported last week that the early response rate has been excellent. Over 1300 completed surveys have been returned so far which is about 55% of those selected. That is a very high rate for early returns.

The survey might look like it will take a long time to fill in but actually takes only about 15-20 minutes. More time will be necessary, of course, if you decide to write any concerns or suggestions on the last page which will be sent by SRI to the director of University Personnel Service.

Please remember that no one at Cornell will ever see your individual responses and that the time you spend now will be useful in determining the direction of policies regarding working conditions at Cornell.

Information gathered from the last employee attitude survey, conducted four years ago, resulted in positive change in many areas including job posting, bene-

fits planning, education opportunities, performance appraisal, and the employee assistance program. Survey results are expected to be available in February 1987 and summary information will be provided soon thereafter.

The kind of survey chosen to solicit information from Cornell employees is called sampling, which has been proven to be a very reliable method of gathering

information. Over one third of the full- and part-time employees on the Ithaca campus, 2400 to be exact, have received this survey.

Communication is a two-way street. Your efforts to communicate your concerns can help foster a more positive work environment for all employees at Cornell. Thank you for participating.

Editorial

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NAME
EMPLOYER
ADDRESS



Cornell

Department

Check location number

Yes, I'll Pledge:

CONTRIBUTOR'S SIGNATURE

DATE

PAYROLL DEDUCTION PLEDGE

I AUTHORIZE MY EMPLOYER TO DEDUCT:
(Check One)

☐ _____ % ☐ 1% or ☐ .6% of salary

or the following amount:

☐ \$ _____ ☐ \$20 ☐ \$10 ☐ \$5

FROM MY PAYCHECK EACH PAY PERIOD
FOR A TOTAL PLEDGE THIS YEAR OF \$ _____

DIRECT CONTRIBUTION

I PLEDGE: \$ _____ Total

\$ _____ Paid Now

\$ _____ Balance Due

Please bill me for the balance due (if any) at the following address.

For your tax records

Acknowledging with thanks the gift of

Contributor

Volunteer

Total Gift

\$ _____

\$ _____

Paid Now

\$ _____

Balance

Thank you!