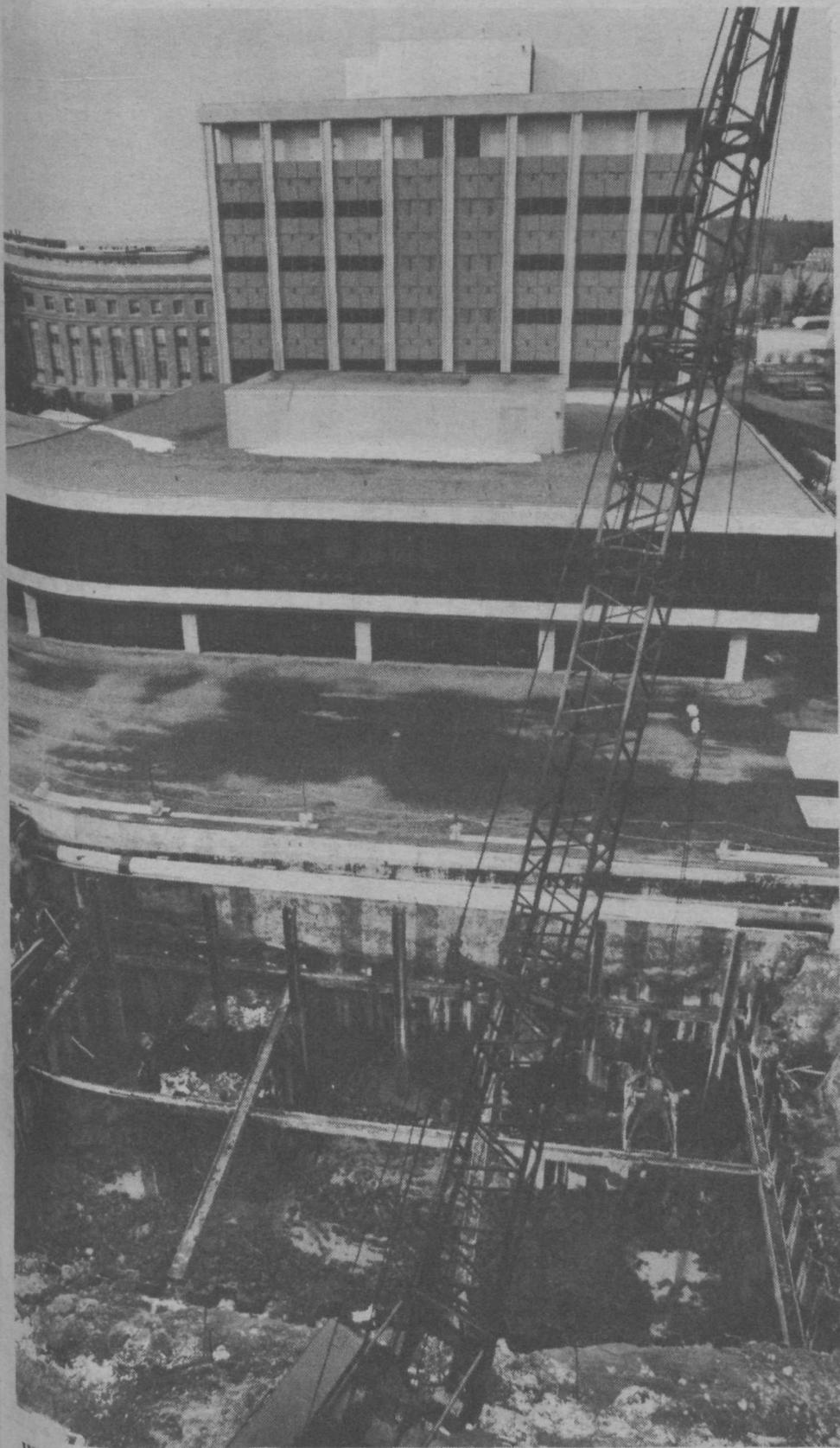


Cornell Chronicle

Volume 16, Number 22

Thursday, February 21, 1985



Winter weather is no problem for builders of the facility that will create the coldest temperatures on Earth, the Microkelvin Laboratory. As shown in this view from the roof of the Space Sciences Building, the underground facility will adjoin the south end of Clark Hall.

Women in International Development Program Established in Ag College

Women in underdeveloped nations and in the rural United States are often vital to local agriculture, yet their roles frequently are neglected by those who set policies and disseminate information. To institutionalize the study of rural women and to address issues in agriculture and rural industrialization, the State College of Agriculture and Life Sciences has established a new program, Women in International Development (WID). Supported by the College of Agriculture

and Life Sciences, the program will be inter-college and interdisciplinary. It will include courses, workshops, and seminars. "By adding women to the agenda of international development, we hope to become more sensitive to what women do and how new knowledge and extension programs can help them," says Shelley Feldman, an assistant professor of rural sociology who is coordinating the program during its two-year trial period.

\$1.25 Million Pew Trust Gift

Nutritional Sciences Will Get New Space

The Division of Nutritional Sciences, the largest academic department in the United States devoted to the study of human nutrition, will soon begin construction of modern, expanded facilities, thanks to a grant from The J. N. Pew Jr. Charitable Trust. The \$1,250,000 award will enable the division to renovate Savage Hall and add a north wing.

The new Savage Hall wing will be devoted primarily to safe, modern nutrition laboratories. For the past 50 years, Cornell scientists have been pioneers in studying human nutrient needs, the metabolism of nutrients in the body, and the role of nutrition in health and chronic diseases. But they have been constrained by inadequate basic-science facilities that are outdated and overcrowded. New laboratories in the Savage Hall wing will allow researchers to use advanced techniques such as cell and tissue culture, biotechnology, and immunology to continue their study of heart disease, cancer, and obesity, and to pursue basic knowledge about nutrient

In addition, the renovation of Savage Hall will provide better space for the division's nonlaboratory programs, such as consumer education, nutritional surveillance, and international nutrition. The division is the headquarters of Cornell Cooperative Extension programs in food and nutrition. It is a joint unit of the New York State College of Human Ecology and the New York State

College of Agriculture and Life Sciences, both at Cornell.

Architects will begin work on the project within several months. Construction of the new wing, a three-story structure providing about 16,000 square feet of space, should be completed by September 1987.

Other funds for the project have come from the late Frances Johnston, professor emerita of nutrition, and from the division and Human Ecology alumni. Cornell also plans to raise an additional \$1 million to match part of the Pew grant.

The Pew Trust is one of several charitable trusts established by members of the Pew family of Philadelphia and administered by The Glenmede Trust Company. The Pew Trusts support nonprofit organizations in the broad areas of health care, education, arts and humanities, and human services. Joseph N. Pew Jr. was a 1908 Cornell University graduate for whom the engineering quadrangle at Cornell was named.

In the past, the university has received grants from the Pew Charitable Trusts for construction at the Cornell Medical School, the Cornell computer center, the development of the College of Engineering instructional facility on computer aided design, and for the geological sciences building, as well as for equipment and materials for the New York State College of Veterinary Medicine and Cornell University libraries.

Milk Diversion Program's End May Increase Farmers' Output

American dairy farmers are likely to step up their milk production this spring when the federal government's milk-diversion price support program ends in April, according to a Cornell economist.

To the dairy industry, the ending of the support program may mean early retirement for a number of marginal operations whether production steps up or not. To the consumer, it may well mean steady, if not lower, milk prices. And to many now in the federal government, it is perceived as further evidence that dairy intervention programs do not work in the long run.

Such are the conclusions of Andrew M. Novakovic, an assistant professor of agricultural economics in the New York State College of Agriculture and Life Sciences at Cornell.

Under the milk diversion program, the federal government paid farmers \$10 for every one hundred pounds of milk "diverted" in order to spur farmers to cut production, and thus reduce milk surpluses. Diverted milk refers to the net decrease in the amount of milk a farmer currently markets when compared to the amount he sold during an earlier "base" period.

"While many who signed up for the maximum diversion under the program may retire permanently (due to age or their belief that they are not able to compete economically any longer), the majority of the program participants, unless they do retire, would be foolish not to return to full-capacity operations once the payments cease," Novakovic says.

It was the federal government's desire to support dairy farmer's prices and incomes, coupled with its reluctance to acquire more of the milk produced by this country's robust dairy industry, that brought on the milk diversion program.

The years 1978-83 saw a steady rise in production, from 123 billion to 140 billion pounds. Consumption rose during that period too, but at a much lower rate.

Under the dairy price-support program, the surplus could be sold to the government. In 1979, the federal government purchased 2.1 billion pounds of excess milk in the form of dairy products. By 1983, the figure had leaped to 16.8 billion pounds. Clearly alarmed by the trend, the government instituted the milk diversion program, but only from January 1984 through the first quarter of 1985.

The proponents of the milk diversion program hoped to reduce production more quickly and less painfully than would be done by simply lowering prices. The intent was for a "quick fix" to a complex problem, one which had taken many years to develop, Novakovic notes.

The milk diversion program, overall, has helped the government reduce the money spent in dairy price supports, Novakovic says. In 1984, the government reduced the milk it bought from farmers by nearly eight billion pounds. That is 43 percent less — a significant reduction.

PEOPLE



BATTERMAN



EASTMAN



HOPCROFT



NEMHAUSER



PAO



TANG



TURCOTTE



WANG

Eight Engineering Professors in Endowed Chairs

Eight members of the faculty at Cornell University have been named to endowed professorships in the College of Engineering. Each is recognized as an international authority in his field.

• **Boris W. Batterman**, professor in the School of Applied and Engineering Physics and an internationally recognized authority on X-ray diffraction, has been elected the Walter S. Carpenter Jr. Professor of Engineering.

The endowed professorship is named for the 1910 graduate of Cornell who was a former president and chairman of the board of E.I. du Pont de Nemours & Co., as well as president of the University of Delaware. Established in 1963, the professorship has facilitated research and teaching in physics and materials science, while encouraging students to develop applied research careers and fostering the interaction between university, governmental, and industrial laboratories.

Since 1978, Batterman has served as director of the Cornell High Energy Synchrotron Source (CHESS), a national facility that supplies synchrotron radiation in the form of X-rays to users in many scientific fields and is available to scientists from laboratories throughout the United States.

• **Lester F. Eastman**, professor in the School of Electrical Engineering and an internationally recognized researcher in microwave and solid state devices and materials, has been named the John LaPorte Given Professor of Engineering.

The endowed professorship is in memory of the late John LaPorte Given, who began his career as a journalist and became head of sales and advertising at the H.J. Heinz Co. The endowment is supplemented by the Ford Foundation Professorship Fund.

Eastman joined the Cornell faculty in 1957. He has been a key figure in the development of teaching and research programs in solid state devices throughout the world through his chairing of national and international symposia, conferences, and

workshops.

A frequent consultant to industry, Eastman directs a Cornell research program of approximately 50 people in compound semiconductor materials and devices, the largest academic effort of its kind in the United States.

• **John F. Hopcroft**, professor in the department of computer science and an eminent figure in the field of theoretical computer science, has been elected the Joseph C. Ford Professor of Computer Science.

The endowed professorship is named for the late manufacturing executive who was a 1911 Cornell graduate in mechanical engineering. Ford was the founder and president of the Celon Co., as well as founder and chairman of the Madison (Wisconsin) Community Trust Fund.

Hopcroft joined the Cornell faculty as an associate professor in 1967 and was named a professor of computer science in 1972. Internationally recognized for his research, Hopcroft is the co-author of several graduate textbooks, including "Formal Languages and Their Relation to Automata" and "The Design and Analysis of Computer Algorithms," which have become standard reference books for a generation of computer scientists. He is an editor for the Society of Industrial and Applied Mathematics Journal on Computing, the Journal of Computer and System Science, Information and Control, Journal of Discrete and Computational Geometry, Algorithmica, and The Oxford University Press International Series of Monographs on Computer Science.

• **George L. Nemhauser**, professor in the School of Operations Research and Industrial Engineering and an internationally respected researcher in mathematical programming, has been elected the first Leon C. Welch Professor of Engineering.

The endowed professorship is named for the late vice president of Standard Oil Co. of Indiana, a 1906 Cornell graduate in mechanical engineering. A 1966 endowment

from Welch and his late wife, Edith Packard Welch, provides funds for the professorship.

Nemhauser joined the Cornell faculty in 1969. He served as director of Cornell's School of Operations Research and Industrial Engineering from 1977 to 1983.

His research is conducted in the areas of integer and combinatorial optimization, a theoretical discipline that yields practical applications for problems such as resource allocation, location; distribution, scheduling, and reliability. His widespread professional activities have given increased visibility to his school as one of the leading operations research departments in the world.

• **Yih-Hsing Pao**, professor of theoretical and applied mechanics and one of the world's leaders in the study of elastic wave propagation, has been elected the Joseph C. Ford Professor of Theoretical and Applied Mechanics.

The endowed professorship is named for the late manufacturing executive who was a 1911 Cornell graduate in mechanical engineering. Ford was the founder and president of the Celon Co., as well as founder and chairman of the Madison (Wisconsin) Community Trust Fund.

Pao joined the Cornell faculty in 1958. He was named a professor in the department of theoretical and applied mechanics in 1968 and was chairman of the department from 1974 to 1980.

During the 1960s and 1970s, Pao conducted research in the new field of magnetoelasticity, making many important contributions that have been recognized internationally by the mechanics community. Most recently, he has achieved recognition as an authority on the subject of inverse problems in wave propagation.

• **Chung-Liang Tang**, professor in the School of Electrical Engineering and one of the world's leading authorities on quantum electronics, has been named the Spencer T. Olin Professor of Engineering at Cornell.

The endowed professorship is named for the former vice president of Olin Industries, Inc., a 1921 graduate of Cornell's Sibley School of Mechanical Engineering. Established in 1964, and supplemented by Ford Foundation funds, the endowment has enabled Cornell to expand its engineering physics program.

Tang joined the Cornell faculty in 1964. His pioneering contributions to the basic physics of lasers have significantly influenced developments in the field over the past 20 years. In his current research program, he is seeking and studying new optical materials and processes for the generation, modulation, and detection of electromagnetic waves, from the infrared to the ultraviolet.

• **Donald L. Turcotte**, professor and chairman of the department of geological sciences and one of the world's leading scholars in geodynamics, has been named the Maxwell M. Upson Professor of Engineering.

The endowed professorship is named for the 1899 Cornell graduate in mechanical engineering who became chief engineer,

president and chairman of the board of Raymond International, Inc., one of the largest construction firms in the world. Established in 1966, the Upson endowment in the College of Engineering is supplemented by the Ford Foundation Engineering Professorship Fund.

Turcotte joined Cornell's aerospace engineering faculty in 1959. He moved to the department of geological sciences in 1973 after his interest in the physics of convection led him to study the geophysical processes of Earth's crust and mantle.

Credited with profoundly influencing the modern revolution in the earth sciences known as plate tectonics, Turcotte was the first to recognize and demonstrate the importance of thermal boundary layers in mantle convection, now acknowledged as the principal explanation for the origin and motion of tectonics plates on the surface of this planet.

His pioneering contributions to theoretical geophysics have earned him two of the highest honors in the field, the Day Medal of the Geological Society of America (1981), and the William Smith Lectureship of the Geological Society of London (1982). In 1984, he was awarded the New York State Regents Medal of Excellence.

• **Kuo K. Wang**, professor of mechanical and aerospace engineering and an internationally known researcher in materials and manufacturing engineering, has been named the Sibley College Professor of Mechanical Engineering.

The endowed professorship and the school are named for Hiram Sibley, the manufacturer and businessman who was a founder and first president of Western Union Telegraph Co. Sibley's gifts to Cornell in the 1870s and 1880s helped establish the College of Mechanical Arts (now the Sibley School of Mechanical and Aerospace Engineering) and the professorship in mechanical engineering, one of the oldest at Cornell.

Wang joined the Cornell faculty in 1970. His current research focuses on polymer processing, numerical control of machinery, computer-aided design and manufacturing, friction welding, and metal cutting. His concentration on developing a scientific basis for the modern revival of manufacturing engineering has carried Cornell to the forefront of this area of national importance.

He is founder and director of the Cornell Injection Molding Program, a highly successful industrial-affiliates program with 18 member companies. He has served in numerous national and international positions, including chairman of the Research Committee of the Society of Manufacturing Engineers since 1981 and chairman of the Mechanical Engineering Advisory Committee of the Industrial Technology Research Institute of Taiwan.

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EDITOR: Randall E. Shew

CONTRIBUTING WRITERS: H. Roger Segelken, Martin B. Stiles, Lisa H. Towle, Anne S. Moffat, David I. Stewart, Mark Eyerly, Yong H. Kim, Susan S. Lang, Jeanne Mackin, Joseph Leeming.

PHOTOGRAPHERS: Sol Goldberg, Charles Harrington.

CIRCULATION MANAGER: Joanne Hanavan.

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It is the policy of Cornell University actively to support 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 which will assure the continuation of such equality of opportunity.

More PEOPLE

On Page 11

United Way Response On Campus Best Ever

The Cornell community responded more generously than ever to appeals of the United Way of Tompkins County, with 1984-85 donors increasing both in number and in the amount pledged.

Final totals show that 4,400 donors gave \$352,000, an increase of 1 percent in the number of donors and 7.3 percent in dollars, during the campaign that began in the fall of 1984.

The Cornell campaign raised about 34 percent of the countywide total for United Way.

Chairman of the Cornell portion of the campaign, University Controller John S. Ostrom, cited three divisions that "led the way in both increase in dollars and donors." He offered special accolades to

Boyce Thompson Institute, where volunteers under the leadership of John Dentes raised 144 percent of last year's total and increased participation 34 percent, from 50 to 67 persons; to the libraries, where Paul Eldridge led volunteer solicitors in raising 130 percent of the previous total and increasing participation from 224 to 246; to Campus Life, led by Leonard Nissenson and Dorothy Cotton, 126 percent of last year's giving and an increase in participants from 356 to 372.

"Thanks to all of you, it worked again," said Ostrom in inviting campaign volunteers to a celebration at 3 p.m. Tuesday, March 5, in the Elmhurst Room of Willard Straight Hall.



First lady Eleanor Roosevelt, a key supporter of home economics education at Cornell, chats with President Edmund Ezra Day and Flora Rose (left), director of the State College of Home Economics, during a 1940 visit to campus. The former home economics program is today the College of Human Ecology.

CORNELL UNITED WAY Results As of February 12, 1985

Division	DOLLARS			PARTICIPATION		
	1983	1984	%	1983	1984	%
Architecture	\$ 3,155	\$ 3,444	109	49	42	86
Arts & Sciences	44,673	50,696	114	422	435	103
GSM	5,416	6,003	111	32	30	94
Engineering	29,717	32,483	109	278	276	99
Hotel	5,634	6,116	110	78	80	103
Human Ecology	14,514	13,132	91	181	170	94
I & LR	6,773	7,461	110	91	91	100
Law	6,021	6,116	102	43	40	93
Vet Medicine	16,995	18,106	107	357	347	97
Nutrition	5,235	5,818	111	94	87	71
Bio Science	9,959	11,125	112	144	150	104
Boyce Thompson	2,672	3,855	144	50	67	134
Libraries	9,763	11,029	130	224	246	110
Financial Adm.	5,688	6,708	118	107	109	102
Computer Svcs	6,923	8,313	120	113	119	105
Athletics	3,198	3,371	105	60	75	125
Campus Life	13,256	16,745	126	356	372	105
Facil & Bus Ops	12,198	12,004	98	396	431	109
Public Affairs	19,429	22,034	113	197	197	100
Retirees	36,879	40,293	109	225	217	96
Student Svcs	5,216	3,752	72	101	79	78
Personnel	1,491	1,100	74	44	31	71
Extension	3,232	2,796	87	46	43	94
Unknown	1,439					
TOTAL	\$328,052	\$352,054	107	4,378	4,400	101

Mrs. Roosevelt Played Key Role In Home Ec Development

On Feb. 24, 1925 — sixty years ago this Sunday — New York Gov. Alfred E. Smith signed legislation making Cornell's home economics school the New York State College of Home Economics.

By the end of the decade, New York lawmakers and Gov. Franklin D. Roosevelt allocated about \$1 million to build a new home for the nation's first state-chartered college of home economics.

Those actions, key steps in the development of what is today the New York State College of Human Ecology at Cornell, can be partly attributed to the influence of Eleanor Roosevelt, a passionate promoter of home economics education.

and college officials at the dedication of Martha Van Rensselaer Hall.

Even as a busy first lady, Mrs. Roosevelt continued to support home economics at Cornell, including making frequent speaking appearances at the annual farm and home weeks. That was when farm couples from across the state visited the Cornell campus to learn about new techniques in agriculture, animal care, and family care.

"I feel I have a right to take pride and particular interest in what happens in the College of Home Economics," Mrs. Roosevelt once wrote. "To me, it is the most important part of the university, for it concerns the homes of the people of this country."

Among those observing the 100th anniversary of Mrs. Roosevelt's birthday last October were board members of the Human Ecology Alumni Association, who recalled the former first lady's support of the college and her frequent visits to the Cornell campus.

It was in early 1925 that Martha Van Rensselaer, co-director of Cornell's School of Home Economics, asked Mrs. Roosevelt to endorse a plan to create a state home economics college at Cornell. Mrs. Roosevelt and others voiced their support for the legislation to Gov. Smith, who signed the bill Feb. 24.

Mrs. Roosevelt was routinely escorted by students during her visits to Cornell. One year, her escort was Pearl S. Buck, a Cornell graduate student who won a Nobel Prize for literature in 1938. Another year, the first lady was escorted by Eleanor Foster Randles, who was assigned to carry Mrs. Roosevelt's coat and rubbers. At a signal from a faculty member, Randles recalled recently, she put the coat over Mrs. Roosevelt's shoulders and the rubbers on her feet.

Eleanor Roosevelt may have made her greatest contribution to the program in 1929 and 1930 when "she helped convince her husband, who was then governor, to push for all of the approximately \$1 million needed to construct a new building for the College of Home Economics," said Carolyn Cook, director of alumni affairs for Human Ecology.

In 1934, after the building was completed and the Roosevelts had left Albany for the White House, Mrs. Roosevelt joined state

Today, the College of Human Ecology is recognized as a national leader in consumer economics, family and human service studies, nutritional and textile sciences, and design. The focus of much of the research is designed to improve the quality of life. How people change their environments and how their environments affect them is of particular interest.

The college offers an annual Eleanor Roosevelt Grant in Home Economics to a student in Human Ecology, in recognition of Mrs. Roosevelt's contributions.

Classics Scholar Michael C.J. Putnam Will Deliver First Townsend Lectures

Classics scholar Michael C.J. Putnam will give the first series of lectures in the newly established annual Townsend Lectures here.

Putnam, a professor of comparative literature at Brown University, will give seven free lectures during February, March, and April on the overall topic, "Artifices of Immortality: The Odes of Horace's Fourth Book."

All the lectures will be at 4:40 p.m. in Kaufmann Auditorium of Goldwin Smith Hall on consecutive Tuesdays starting February 26 and running through April 10, except for April 2 when the university will be on spring recess.

The themes of Putnam's seven talks, in order, will be "Horace's Valediction," "The Loving Muse," "Learned Apollo," "Time and Redemption," "Festivity's Music," "Sorcery and Song," and "Past and Future Time."

The lectures will be published by the Cornell University Press as part of its "Cornell Studies in Classical Philology"

series. Putnam will conduct a seminar for graduate students during his eight-week stay on campus as the Townsend Lecturer.

The lectureship has been established by the department of Classics with a bequest from the late Mrs. Prescott W. Townsend, a long time benefactor of the university and of the Classics department in particular. Her gifts were made in honor of her late husband, a 1916 graduate of Cornell and renowned Classics scholar at Indiana University.

Putnam is the author of five books, including several in their second printing — "The Poetry of the Aeneid" and "Tibullus: A Commentary." Other books include "Virgil's Poem of the Earth" and "Essays on Latin Lyric, Elegy, and Epic," and three edited volumes, along with 90 articles and reviews.

A member of the Brown faculty since 1960, Putnam received an A.B. degree (1954), an A.M. (1956), and a Ph.D. (1959) from Harvard University.

Minority Students Will Explore Opportunities for Health Careers

Representatives of one dozen professional schools will be here Saturday, Feb. 23, to discuss medical and health opportunities in the minority community.

In addition to the Cornell students who are being invited to the one-day program, as many as 75 students from other upstate colleges and universities are expected to attend. The program, free to the Cornell and Ithaca communities, is sponsored by the Black Bio-Medical and Technical Association, an organization of undergraduate minority students interested in careers in the health field. Founded in 1974, BBMTA is active on campus and in the community.

Keynote speaker for the program, which begins at 9:30 a.m. in Kaufmann Auditorium of Goldwin Smith Hall, will be

Robert J. Rivers, assistant dean of minority affairs at the University of Rochester. He will discuss the role of students and the manpower needed to improve the health status of members of the minority community.

At 11 a.m., panelists will discuss career opportunities in ophthalmology, pathology, podiatry, dentistry, physical therapy, pharmacy, social work, and related fields, such as health administration. Panel members will describe their professions and answer questions.

For further information, contact Daria Kirby, president of BBMTA, at 256-6071, or Janice Turner, assistant dean in the College of Arts and Sciences, at 256-5004.

Microcomputer Users Have Wide Choice of Printers

With thousands of microcomputers now being used on campus, questions about which printer to buy are being asked with increasing frequency. Here is the latest information on printers compiled by Tom Hughes, acting director of decentralized computer services.

Every microcomputer user should have access to a printer since the microcomputer is nearly useless without one. Because there are more than a hundred good printers on the market, picking the best printer for your situation can be very confusing. This article won't tell you exactly which printer to buy, but it will help you narrow down the field to just a few choices.

Most modern printers are reliable and well designed. Nonetheless, you should probably choose a printer that is sold and supported locally. Most printers need repair eventually, and getting the wrong cable by mail order can be a nightmare. Printers sold by Computer Services in G14 Uris Hall are the best choice for most people.

In choosing a printer, first decide what you want the printer to do. Consider what print quality you need and whether you are likely to use the printer for graphics. Dot matrix printers can have very good print quality, but they cannot match a daisy wheel printer with a film ribbon, or a laser printer. A daisy wheel printer can do some graphics and print rough drafts but it will always be slower and less cost effective for this than a good dot matrix printer. If you don't know if a dot matrix printer has good enough quality, come into G26 Uris and look at print samples in the printer notebook. Once you've decided on print quality, you can think about printing speed and other features you would like in your printer.

As a rule any printer can work with any microcomputer. There are three areas of exception: 1) The computer and the printer must have the same type of interface. 2) The computer (or its software) and the printer must match if you wish to print graphics and 3) A microcomputer program (such as a word processor) that expects to make use of the features of the printer (such as underlining and italics) must be able to send the right printer commands. WordPerfect word processing software can support nearly any printer but other programs are usually limited to a few printers.

Good dot matrix printers range in price from \$400 to \$2000. Most can do graphics, print in several pitches (character widths) and handle most Western European characters. Nearly all dot matrix printers now have two or three print qualities. Draft printing is fast (120-300 characters per second, or cps) and readable, and the higher print qualities are very good, although they may make the printing 2 to 5 times slower. There are several methods for getting the ink on the paper. Impact printers strike a ribbon with small pins located in the print head. Different brands have from 7 to 24 pins in the print head. Ink jet printers squirt tiny droplets of ink onto the paper, and are nearly silent. They offer quality comparable to impact printers.

Some choices in dot matrix printers in \$400-\$800 range:

Hewlett-Packard ThinkJet: A quiet, compact printer with IBM-compatible (Epson) graphics. Fast but not designed for heavy printing loads. Has wide carriage model.

IBM Graphics Printer: An Epson MX-80 modified and marketed by IBM. Does graphics well but does not have outstanding print quality nor ability to handle single sheet paper. Excellent choice for draft printing.

Okidata 92 and 93 (wide carriage): Rugged and fast but noisy. The highest quality print is very good. Models sold at Cornell do IBM (Epson) graphics. Serial interface costs about \$100 extra.

Epson FX-80 and FX-100 (wide carriage): Rugged and just as fast but somewhat quieter than the Okidata. Print quality

not as good as the best quality on the Okidata. But, they do italics, support downloadable characters well and have excellent graphics printing (IBM-compatible). Work best with a parallel interface.

Apple Imagewriter (wide carriage version available): Excellent dot matrix printer with a serial interface. Good print quality and is a smart, fast graphics printer. Currently the best printer for the Macintosh. For text printing, it also works with the DEC Rainbow and the IBM-PC.

DEC LA-50: A good, if unremarkable, printer. Supports DEC graphics.

Some Choices in \$1200 - \$1500 Range:

IBM Quietwriter: True letter quality, good speed and has plug-in fonts. Nearly silent because it melts the ribbon onto the paper. Does not have a draft mode or true graphics. Parallel interface only.

Epson LQ-1500: Truly excellent print quality, IBM graphics and excellent speed. Sheet feeders are available.

DEC LA-100: Very good print quality, supports DEC graphics and has some plug-in fonts. Very fast printer.

Toshiba 1351: The 24 pin print head allows for very fast, high-quality printing and fast graphics. Best for applications such as unusual character sets printed in graphics. (Not available from CCS)

All daisy wheel printers have comparable quality when used with film ribbons. Some allow 15 pitch, in addition to the normal 10 and 12 pitch printing. Some have more characters on the print element, but they all can print text from any program on a microcomputer. They range in price from

\$500 to \$2500. The speed of the printer determines most of the difference in price. Computer Services now sells only the series of printers made by NEC (Spinwriters) because they are reliable and offer a range of speed and price. All Spinwriters use a 128 character print element which makes it easy to do accents and some technical symbols. Lower cost daisy wheel printers are available at nearly all the local computer stores.

NEC Spinwriters: Spinwriters come in three speeds: the 2000 series (20 characters per second), the 3500 series (35cps) and the 7700 series (55 cps). In each series there are several options such as type of printer commands used (Diablo or NEC, check your word processing manual to see which are supported), type of interface (serial or parallel) and a keyboard for use as a paper terminal to a mainframe computer. They all use the same print elements, called thimbles, and have the same print quality. The NEC 2000 series (20 cps printers) costs about \$800; NEC 3500 series (35 cps) costs about \$1500, and the 7700 series (55 cps) costs about \$1,700.

NEC 2010: Has a serial interface, uses NEC commands and can support the Apple Macintosh.

NEC 2015: Uses Diablo commands and also has a serial interface.

NEC 2030: A parallel interface and uses NEC commands.

NEC 2050: A special IBM-compatible version of the 2030.

NEC 3510 and NEC 3515: See above comments about the 2010 and 2015.

NEC 3520 and NEC 3525:

Printer/terminals with keyboards, not for microcomputer users. Serial interface.

NEC 3530: See above note on 2030.

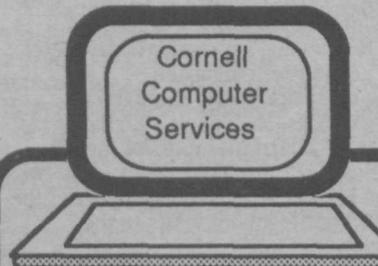
NEC 3550: See the above notes about the 2050.

Other than speed, the 77xx printers are very similar to the 3500 Series. While these are excellent printers, we suggest that you look at the HP LaserJet or other laser printers before you buy an expensive daisy wheel printer.

Last year the least expensive laser printer cost about \$22,000. This year a breakthrough by Canon in adapting its desktop copier has let four companies bring in laser printers for less than \$7,000. Several more low price lasers should be available by summer of 1985. This is the direction print technology is heading.

Hewlett-Packard makes the simplest of the laser printers, the LaserJet. Its list price is \$3500. The Cornell price is about \$2100. This is a printer with daisy wheel quality and prints at 300 cps. It does not have full page graphics, and has only limited choice of fonts. This is an excellent choice in an office as a shared daisy wheel printer. It is nearly silent and it is fast.

Apple Computer has announced a laser printer based on the Canon engine that should be available in March 1985. It supports Macintosh graphics and different print sizes. This printer allows you to produce pages that look typeset. In fact, there will be typesetting packages available for the Mac and this printer. It is designed to be connected to a number of Macintoshes at the same time. The Cornell price will be about \$4500.



THE COMPUTER PAGE

An Occasional Collection of News and Comments from Computer Services

Students Line Up to Buy Microcomputers as Prices Come Down

Even though spring registration has ended and Bruce Springsteen long ago played the last concert of his USA tour, lines are still forming on the Cornell campus. The setting last week was the ground floor of Uris Hall where would-be computer purchasers camped out in the corridors near the Marketing Office of Network Communications. The big event??? The long-awaited price lists for the Macintosh personal computer.... Why the crowds??? To be the first on your block to take advantage of the new low cost, get your Mac while still in stock, and scurry back to the dorm room to word process away your first paper of the semester.

As a part of Apple Computer's University Consortium, Cornell's students, staff, and faculty can purchase the Macintosh, Imagewriter printer and second disk drive as a package deal until March 29. The package price represents a significant savings over individual NetComm prices, while giving the buyer a more complete, versatile system. In the past year, since the Mac's introduction and its availability on campus, the staff of Network Communications has survived several of these "rushes" to purchase the computer, most notably at the beginning of the fall semester and again around the December holidays. During the past two weeks, while the Marketing staff at NetComm waited for official word from Apple, many hopeful Mac purchasers stopped by only to learn that SOON, ANY DAY NOW, the Macintosh computer would



Students line up to order microcomputers at the Uris Hall marketing office of Network Communications after a price cut by the manufacturer.

become, for a limited time only, an even bigger bargain than before. Phone calls increased to nearly 100 each day; many customer questions became predictable and more than a few faces became familiar, like old friends, by the time the new price list arrived in the G26 Uris Demo Area late in the afternoon on Monday, February 11.

For those who queued up on Tuesday, the wait was certainly worthwhile. All of

NetComm's morning customers were able to buy the 128K or 512K Macintosh Package Deal as "in stock" items. For the others as well as the crowds that still gather, many of the components are now on back order for two to three weeks. And it seems likely that the lines will go on—at least until the end of March when the Mac Package Deal ends.

Nancy Flynn
Network Communications

New Exhibition Of Textiles Spurs Events

An exhibition of textiles from the Indonesian Archipelago at the Herbert F. Johnson Museum of Art is the background for an array of events planned from now into spring.

The exhibit, "Dyer's Art/Weaver's Hand: Textiles from the Indonesian Archipelago," will be on view through May 1.

The show is co-sponsored by the Southeast Asia Program and consists of approximately 50 textiles that are distinguished by their wealth of design.

Events at the museum range from documentary films on the Indonesian textile industry to music and dance performances celebrating Indonesian culture. All programs are free and open to the public.

Saturday, Feb. 23, 1 p.m., A Balinese Mask Dance Performance of "The Pig-Headed Tyrant" and "Red Riding Shawl" will be presented in the style of the topeng dance theater of Bali, Indonesia, by John Emigh of Brown University. The Cornell Gamelan Ensemble will accompany the performance. All ages are welcome.

Sunday, March 3, 1 p.m., The Indonesian Film Series presents "Double Ikat at Tenganan Pegeringsingan: Winding and Wrapping the Warp" (47 minutes).

Sunday, March 10, 1 p.m., The Indonesian Film Series presents "Double Ikat at Tenganan Pegeringsingan II: Winding and Wrapping the Weft, Red Dyeing, Removal of the Weft Resists" (33 minutes), and "Sinaga's Family — A Batak Village" (18 minutes).

Saturday, March 16, 10:30 a.m. - noon. All ages are invited to "Explore Indonesian Textiles" by seeing the ancient art of batik demonstrated and participating in a fabric painting workshop. 1 - 2 p.m. Ithaca weaver Charlotte Coffman will conduct a slide lecture entitled, "Indonesian Textiles: Reflections of a Diverse Culture."

Sunday, March 17, 1 p.m., The Indonesian Film Series presents "Double Ikat at Tenganan Pegeringsingan III: Arranging the Patterned Warp" (27 minutes), and "Taram: A Minangkabau Village" (22 minutes).

Sunday, March 24, 1 p.m. The Indonesian Film Series presents "Double Ikat at Tenganan Pegeringsingan IV: Weaving on a Horizontal Backtension Loom" (33 minutes), and "Marvel: A Jakarta Boy" (17 minutes).

Saturday, April 20, 1 p.m., The Cornell Gamelan Ensemble will perform a concert of Indonesian music. The gamelan, an ensemble of gongs, chimes, and drums, was developed over the past 200 years in the courts of central Java. The instruments are on loan to the university from the Metropolitan Museum of Art.

Sunday, April 21, 3 p.m., Another Gamelan Performance will be presented by the Cornell Gamelan Ensemble.



Atop Clark Hall with one of the microwave transceivers in the Prime Network are, from left, Douglas Neuhauser, research support specialist in the Materials Science Center; Carl Lagoze, manager of the Chemistry Computing Facility; Richard Cochran, research support specialist at MSC; and Edward Kiefer, manager of the MSC Computing Facility. The Clark Hall transceiver communicates with another on the roof of Thurston Hall (arrow).

Prime Computer Network Uses Microwave Relays

A coupling of computer and microwave technology allows several hundred physical scientists across the Cornell campus to share data and research through a newly installed high-speed network.

Prime super-minicomputers in four facilities - the two Materials Science Center computing facilities in Clark Hall and Thurston Hall, the Cornell chemistry computing facility in Olin Library, and professor of chemistry Harold Scheraga's research computer in Baker Laboratory - are connected in an integrated network using coaxial cable and microwave transmission. The integrated connection allows any user complete access to CPU and disk resources of all computers on the network.

With the network, the over 500 users of the combined facilities can now easily share data and programming development. The combined resources of the systems network include over three and a half billion bytes of disk storage, four virtual memory 32-bit central processors with hardware floating point, three array processors, many graphics peripherals, and over 250 individual terminal lines. The combined annual research budgets of the four facilities exceeds three hundred thousand dollars.

In 1975 the Materials Science Center (MSC) in Clark Hall established one of the first multi-user minicomputer facilities on campus with the purchase of a Prime 300. This system provided interactive data analysis and collection for physicists, chemists, and engineers in Baker Lab and Clark Hall. Expanding use led to various upgrades of the first machine and the eventual establishment of the four separate computing facilities. The resource sharing among scientists available in the single system became more difficult with the separate systems. The need for unified inter-computer communication was evident given the similar types of data analysis performed on the systems.

In early 1984 the four computer facilities received equipment and software grants from both Prime Computer, Inc. and General Electric for the installation of a mixed media computer network. Prime donated the essential networking software, Primenet, which provides users with a unified computing environment across the networked systems. Primenet provides two functions for users' remote login and remote file access. The remote login feature allows users to log into any system on the network from any terminal. The remote file access capability allows a user to access any file on any system across the network in the same manner. In addition to the software, Prime donated network interfaces and cabling for a high-speed, eight megabit-per-second ring network connecting the Baker, Clark and Olin computers.

Due to the distance between Thurston Hall and the other computers an alternative connection method was required. Through a donation from General Electric, MSC acquired two Gemlink microwave transceivers to connect the Thurston com-

puter to the ring network. Although the connection via microwave to Thurston Hall differs from the rest of the network in both the type of media and transmission speed, Primenet "hides" this from the user; access to any system is the same for all users.

Isaac Stern at Bailey Hall March 7 For His Sixth Visit to Cornell Campus

On March 14, 1950, Isaac Stern first appeared at Cornell. On Thursday, March 7, the "dean" of American violinists will make his sixth visit to the University's Bailey Hall Auditorium, playing selections from Brahms, Mozart, Bach, Faure, Bartok, Ravel and Szymanowski.

At age 64, Stern stands as an object lesson to musicians and non-musicians alike. Since his debut in 1934, Stern has rarely been out of the public eye. Known for his quick sense of humor, the Russian-born artist, an avid sports fan, has been named Artist Laureate of Columbia Records, honored by the Kennedy Center for lifetime achievement in the arts, served as teacher of masters classes to young Chinese and as mentor to the likes of Itzhak Perlman and Pinchas Zukerman, helped found the National Council on the Arts and spearheaded the drive to save Carnegie Hall from destruction.

Time magazine recently wrote that Stern is "a natural force not to be explained." He feels that the older generation of violinists had musical secrets unknown to the youngsters of today. But, he concedes that "young violinists today play everything. And as fiddle players they are better than ever before." However, he adds: "Their way of playing is more aggressive, more assertive, than violin playing used to be. The older violinists had such confidence that they did not think it necessary to assert

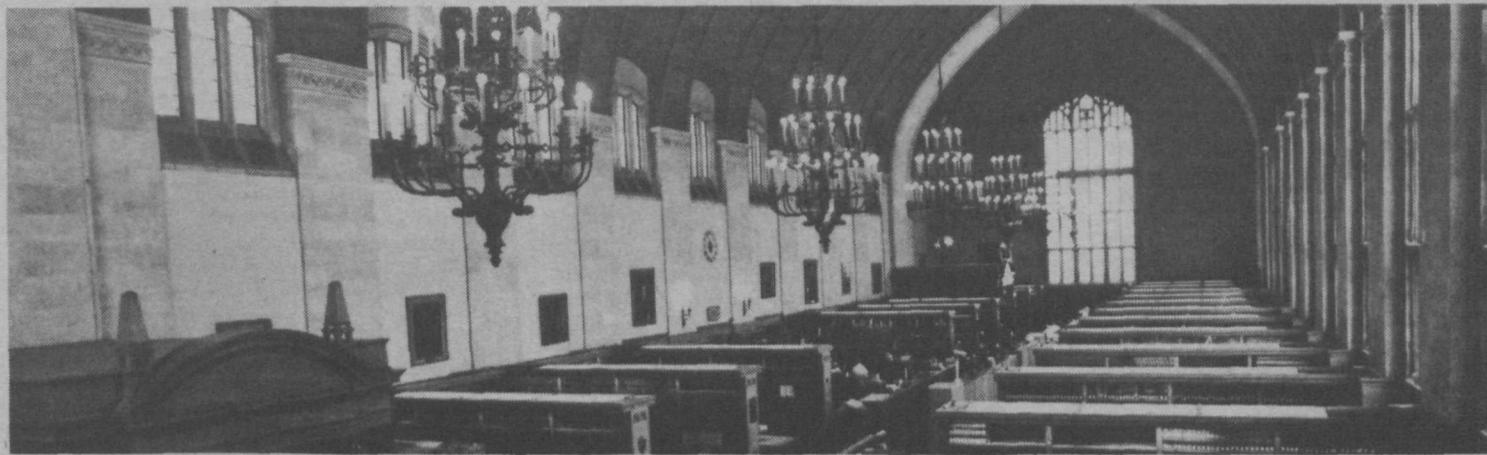
themselves all the time."

Despite his ambivalence about the changes in violinists and violin playing over the past 50 years, Stern is an avowed champion of contemporary music. As such he has given premieres of violin works by Bernstein, Hindemith, Penderecki, Rochberg, and Schuman.

His career has also included both feature films and television. After the Six Day War of 1967, he performed the Mendelssohn Concerto atop Mount Scopus with the Israel Philharmonic Orchestra conducted by Leonard Bernstein. This memorial concert was made into a film entitled "A Journey to Jerusalem." Other films in which he has performed are "Tonight We Sing," the film biography of impresario Sol Hurok, and "ghosting" for John Garfield in "Humoresque." He played the sound track for the movie "Fiddler on the Roof," and in 1979 went to China, at the invitation of the Chinese government, to advise on the integration of its music life with that of the west. His work there was filmed and edited into the Oscar winner: "From Mao to Mozart: Isaac Stern in China."

Stern is the first recipient of the Albert Schweitzer Music Award for "a life dedicated to music and devoted to humanity."

For ticket information about the 8:15 p.m. concert, call the Lincoln Hall ticket office at 256-5144 between 9 a.m. and 1 p.m. weekdays.



Light and shadow patterns at the Law Library.

Calendar

All items for publication in the Calendar sections, except for Seminar notices, must be submitted (typewritten, double spaced) by mail or in person to Fran Apgar, Central Reservations, 531 Willard Straight Hall at least 10 days prior to publication. Seminar notices should go to the Chronicle office, 110 Day Hall. Items should include the name and telephone number of a person who can be called if there are questions, and also the subheading of the calendar in which it should appear (lectures, colloquia, etc.) ALL DEADLINES WILL BE STRICTLY ENFORCED.

*—Admission charged.

Announcements

EARS

Just want to talk? That's what EARS Counselors are there for! They are trained listeners and are waiting to lend a free and confidential "ear" to listen to your feelings, help you explore your situation and discover options. EARS Counselors provide non-judgmental, short-term counseling and have access to a wealth of information about other services at Cornell, if appropriate. Walk into WSH Room 211 or call 256-EARS. Su-Th, 3-11 p.m.; Fri & Sat, 7-11 p.m.

Writing Workshop

Writing workshop walk-in service; free tutorial instruction in writing. Monday-Thursday from 3:30-6 & 7:30-10 p.m. Sunday from 3-8 p.m. in 174 Rockefeller Hall.

Meet the Travelers

On Thursday, February 28, Professor Carla Golden will be talking on "Educational Adventure Around the World" at 7:30 p.m. in the Statler Inn Main Lounge. There will be slides to accompany the talk.

Storyteller-Michael Parent

On Friday, February 22, nationally known storyteller Michael Parent will be in Ithaca to share his craft. He will be joined by Beauty and the Beast Storytellers for an evening concert at the Anabel Taylor Chapel, Cornell University. The performance will begin at 8:00 p.m. and the admission will be \$4.00. The program will be for adults and children ages 8 and up.

Workshop on Narrative

A workshop on Narrative will take place on February 23, from 3:00-4:30 p.m., at the Andrew Dickson White House, chaired by Paul Sullivan, Cornell University. Sponsored by Latin American Studies Program, Southeast Asia Program, Council of the Creative and Performing Arts, The Herbert F. Johnson Museum and The Society for the Humanities.

Keynote Address

A keynote address, "The Temporality of Sound and the Eye of the Reader: Problems in the Translation of Performance" will take place on February 23, from 4:30-6:00 p.m., at the Andrew Dickson White House, speaker Dennis Tedlock, Boston University. Sponsored by Latin American Studies Program, Southeast Asia Program, Council of the Creative and Performing Arts, The Herbert F. Johnson Museum and The Society for the Humanities.

African Songwriter-Tony Bird

On Saturday, March 2, 1985 at 8:00 p.m., in Kaufmann Auditorium, Goldwin Smith Hall, Balinkie Productions and the Commons Coffeehouse will present African songwriter and singer Tony Bird. Tony Bird is impossible to categorize. Bird's unique songs have captivated audiences and inspired critics throughout Africa, Canada, England, Italy and the USA. Tickets are available at Ithaca Guitar Works, Borealis Books and The Commons Coffeehouse. For more information call (607) 277-2306.

Alternatives Library

The Alternatives Library is open to the public! We offer a wide range of materials on spirituality and selfgrowth, Anabel Taylor Hall, Cornell University.

Makhela (Hebrew Choir)

Makhela (Hebrew choir), meets every Sunday at 9:00 p.m. in the Edwards Room, Anabel Taylor Hall.

Engineering Career Orientation Forum

Attention Freshman and Sophomore Engineers. Do you need help deciding a major? The next Engineering Career Forum in Civil and Environmental Engineering is coming up on Wednesday, February 27, at 4:30 p.m. in Olin Hall, Room 155. For more information, contact the Engineering Admissions Office at 256-5008. Sponsored by The Engineering Ambassadors Association.

British Duo-John Roberts and Tony Barrand
John Roberts and Tony Barrand, a British duo whose repertoire includes drinking songs, off-color ballads and music hall recitals, will make their first appearance in Ithaca in several years at 8:00 p.m., Saturday, February 23, in Kaufmann Auditorium, Goldwin Smith Hall. The concert is sponsored by the Cornell Folk Song Club.

Intramural-Skiing

Skiing-Giant Slalom (Men, Women, Co-Ed). Deadline on entries: Friday, March 1, at 4:00 p.m. in the Intramural Office in Helen Newman Hall. Contestants will run in numerical order...Numbers and pins will be issued when you submit your roster...Co-Ed: Equal number of men and women to enter. First man and woman to finish will score. (You must wear your number.) (Minimum of 4 to enter...3 must finish to score as a team.) \$15.00 per person to enter, checks payable to Greek Peak.

Dance

Masked Dance

A workshop on masked dances will be held at 4:30 p.m., Friday, February 22, at the Johnson Museum. This event will be chaired by James A. Bohn, professor of Anthropology and Asian Studies, Cornell University.

Dance Performance

A dance performance, The "Pig-Headed Tyrant and Little Red Shawl", performed by John Emigh, Brown University, and accompanied by members of the Cornell Gamelan Ensemble, will be held on February 23, at 1:00 p.m., at the Johnson Museum.

Jitterbug Club

The Jitterbug Club dances the 1st, 3rd and 5th Wednesday of every month from 9-11 p.m. in the Edwards Room in Anabel Taylor Hall. We teach beginners from 9-10 p.m. Call Jim at 273-5268 for more information.

Scottish Country Dancing

Scottish Country Dancing. Everyone welcome. Teaching for beginners is 8-10 p.m. Sundays, except the 1st week of every month. We meet Mondays, 8-10 p.m. at 213 S. Geneva Street. For more information call 272-6229.

Country Dancers

The Country Dancers meet each Tuesday 7:30-9:30 p.m. in Martha Van Rensselaer Hall (lobby near "Martha's") for English and contra dancing. No partners needed. Beginners welcome—each dance is taught. For more information call Connie at 272-1931.

Israeli Folk Dancing

Israeli Folk-Dancing every Thursday from 8-11 p.m. in the One World Room, Anabel Taylor Hall. Teaching from 8-9 p.m.; requests, 9-11 p.m. Call Sharon at 272-4176 for more information.

Ballroom Dance

The GSA of the Natural Resources Department is holding their second annual semi-formal ballroom dance Saturday, Feb. 23, 1985, from 9:00 p.m.-1:00 a.m. in the Memorial Room, Willard Straight Hall. It will feature a live band. Light refreshments and a cash bar will be provided. Tickets are \$7.50 for non students and \$5.50 for students, and must be purchased in advance. Tickets can be obtained from Alison Smith, Cindy Nolt or Debbie Van Ryn, Department of Natural Resources, Fernow Hall, 256-3191, or Jack Kelly, 311 Corson Hall, 256-3435. Practice review sessions will be held in Room 304 Fernow Hall on February 7th, 14th and 21st at 7:30 p.m.

Cornell Folkdancers

The Cornell Folkdancers meet in the North Room of Willard Straight Hall on Sunday's throughout February. Instruction from 7 p.m. till 8:30 p.m., followed by request dancing until 10:30 p.m. Free, beginners welcome, no partners needed. For more information call 256-7149 or 257-3156.

Exhibits

Herbert F. Johnson Museum

"Order and Enigma: American Art Between the Two Wars", on view from February 20th through April 7th, is an exhibition of sixty-two paintings, prints, sculptures and drawings created between 1917 and 1941. Represented are Charles Burchfield, Stuart Davis, Arthur Dove, Edward Hopper, Georgia O'Keeffe, Grant Wood and many others.

"Dyer's Art Weaver's Hand: Textiles from the Indonesian Archipelago", an exhibition comprised of approximately fifty textiles from private collections representing many of the islands of Indonesia, is on view from February 20th through May 1st. Cornell University's South-

east Asia Program is sponsoring the show in conjunction with the museum.

Films

Unless otherwise noted films are sponsored by Cornell Cinema.

Friday

Feb. 22, 12:30-2:00 p.m. Johnson Museum. "Mountain Music of Peru", John Cohen, SUNY Purchase. Discussion chaired by Richard Herskowitz, Cornell University. Sponsored by Latin American Studies Program, Southeast Asia Program, Council of the Creative and Performing Arts, The Herbert F. Johnson Museum and The Society for the Humanities.

Feb. 22, 7:00 p.m. *Statler Auditorium. "The Natural", (1984), directed by Barry Levinson, with Robert Redford and Robert Duvall. Limited.

Feb. 22, 10:00 p.m. *Statler Auditorium. "The Man Who Knew Too Much", (1956), directed by Alfred Hitchcock, with James Stewart and Doris Day. Limited.

Feb. 22, 10:00 p.m. *Uris Auditorium. "Gospel", (1982), directed by David Leivick, with Clark Sisters and Mighty Clouds of Joy. Limited. Cosponsored by Festival of Black Gospel.

Saturday

Feb. 23, 7:15 p.m. *Uris Auditorium. "The Man Who Knew Too Much", (1956), directed by Alfred Hitchcock, with James Stewart and Doris Day. Limited.

Feb. 23, 8:00 p.m. *Anabel Taylor Hall. "Alice In The Cities", (1974), directed by Wim Wenders, with Rudiger Vogler. Cosponsored by Western Societies Program.

Feb. 23, 10:00 p.m. *Uris Auditorium. "The Natural", (1984), directed by Barry Levinson, with Robert Redford and Robert Duvall. Limited.

Sunday

Feb. 24, 2:00 p.m. Johnson Museum. "Deafman Glance", (1981), directed by Robert Wilson, video of performance. Open. Cosponsored by NYSCA and Theater Cornell. Shown with Stations.

Feb. 24, 2:00 p.m. *Uris Auditorium. "The King and I", (1956), directed by Walter Lang, with Deborah Kerr and Yul Brynner. Limited. Cosponsored by Ithaca Youth Bureau.

Feb. 24, 8:00 p.m. *Uris Auditorium. "Heaven Can Wait", (1943), directed by Ernst Lubitsch, with Gene Tierney and Don Ameche. Limited.

Monday

Feb. 25, 7:00 p.m. *Uris Auditorium. "The Epic That Never Was", (1968), directed by Josef Von Sternberg, with Charles Laughton and Merle Oberon. Open. Cosponsored by Classics Discussion Group.

Feb. 25, 9:00 p.m. *Uris Auditorium. "The Criminal Life of Archibaldo De La Cruz", (1955), directed by Bunuel, with Ernesto Alonso and Miroslava Stern. Film Club Members Only.

Tuesday

Feb. 26, 8:00 p.m. *Uris Auditorium. "Roses in December", (1982), directed by Ana Carigan and Bernard Stone, documentary. Open. Shown with: "Out of Order", (1984), directed by Diane Christian and Bruce Jackson, documentary.

Wednesday

Feb. 27, 4:30 p.m. Uris Auditorium. "When A Woman Ascends the Stairs", (1960), directed by Mikio Naruse. Open. Cosponsored by China-Japan Program.

Feb. 27, 8:00 p.m. *Uris Auditorium. "Strike", (1925), directed by Sergei Eisenstein. Open. Shown with: "Kino-Pravda", (1922-25), directed by Dziga Vertov, documentary.

Lectures

Thursday

Feb. 21, 10:00-11:00 a.m. Herbert F. Johnson Museum of Art. "American Art Between the Two Wars: A Talk on the Exhibition," Laura Meixner, Assistant Professor of Art History, Cornell University. Cosponsored by the Cornell University Campus Club.

Feb. 21, 12:20 p.m. 102 West Avenue. Southeast Asia Program. Taufik Abdullah, Visiting Professor of Southeast Asian Studies, Cornell University; Topic to be announced.

Feb. 21, 8:15 p.m. Founders Room, Anabel Taylor Hall. "Genesis and Geology: Is Geology the 'Infidel' Science"? Davis Young, son of E.J. Young, Professor of Old Testament at Westminster Theological Seminary, received degrees in geology and related fields from Princeton (B.S.E.), Penn State (M.S.), and Brown (Ph.D.). Since 1978 he has been Professor of Geology at Calvin College, Michigan. Cosponsored by the Cornell Christian Fellowship and Cornell Graduate Christian Science Forum.

February 1985						
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Friday

Feb. 22, 2:30 p.m. Johnson Museum. Southeast Asia Program: "Sound in Ceremony: The Aesthetics of Temiar Performance," Marina Roseman, SEAP Graduate Student in Anthropology.

Feb. 22, 3:30-4:30 p.m. Johnson Museum. "The Choreography of History in Andean Dance," Deborah Poole, University of Illinois. Sponsored by Latin American Studies Program, Southeast Asia Program, Council of the Creative and Performing Arts, The Herbert F. Johnson Museum and The Society for the Humanities.

Feb. 22, 4:30 p.m. 374 Rockefeller Hall. "Kato Hiroyuki (1836-1916) and the Ironies of Enlightenment in Meiji Japan," J. Victor Koschmann, Professor of History, Cornell University. Sponsored by the China-Japan Program.

Saturday

Feb. 23, 9:00-10:00 a.m. A. D. White House. "Javanese Texts and Oral Tradition," Martin Hatch, Cornell University. Chaired by B. J. Isbell, Cornell University. Sponsored by Latin American Studies Program, Southeast Asia Program, Council of the Creative and Performing Arts, The Herbert F. Johnson Museum and The Society for the Humanities.

Feb. 23, 10:00-11:00 a.m. A. D. White House. "Time and the Andean Narrative," Catherine Allen, George Washington University. Chaired by B. J. Isbell, Cornell University. Sponsored by Latin American Studies Program, Southeast Asia Program, Council of the Creative and Performing Arts, The Herbert F. Johnson Museum and The Society for the Humanities.

Feb. 23, 11:00-12:00 a.m. A. D. White House. "On the Margins of Intelligibility: Subliminal Patterns in Quechua Folksong," Bruce Mannheim, University of Michigan. Chaired by B. J. Isbell, Cornell University. Sponsored by Latin American Studies Program, Southeast Asia Program, Council of the Creative and Performing Arts, The Herbert F. Johnson Museum and The Society for the Humanities.

Sunday

Feb. 24, 8:00 p.m. Founders Room, Anabel Taylor Hall. "Further Reflections on Jewish Feminism," a lecture-discussion with Blu Greenberg, Chair, National Jewish Book Council. Author of "On Women and Judaism: A View from Tradition". Sponsored by Hillel.

Monday

Feb. 25, 7:30-9:00 p.m. One World Room. Anabel Taylor Hall. Center for World Community and IRIM: "Global Communication and Survival", Njoku Awa, Associate Professor, Communication Arts.

Tuesday

Feb. 26, 8:00 p.m. Room 24, Goldwin Smith Hall. "Petra and Palmyra: Caravan Cities of the Desert," Professor Duane Roller, from Wilfred Laurier University. Sponsored by the Archaeological Institute of America.

Thursday

Feb. 28, 10:00-11:00 a.m. Herbert F. Johnson Museum of Art. "Highlights of Chinese Painting and Ceramics from the Museum Collection," Emoretta Yang, Assistant Curator of Asian Art, Herbert F. Johnson Museum of Art. Cosponsored by the Cornell University Campus Club.

Feb. 28, 12:20 p.m. 102 West Avenue. Southeast Asia Program. Pamela Sodhy, Department of History, National University of Malaysia and SEAP Visiting Fellow, "U.S. Malaysian Relations Since 1966."

Feb. 28, 4:00 p.m. Founders Room, Anabel Taylor Hall. "Further Reflections on Jewish Feminism," a lecture-discussion with Blu Greenberg, Chair, National Jewish Book Council. Author of "On Women and Judaism: A View from Tradition". Sponsored by Hillel.

Feb. 28, 8:00 p.m. at the Chavurah, 517 E. Buffalo Street. "Short Summer Ulpans", with Nurit Snir. Sponsored by FOI and the Chavurah.

Meetings

Tuesday

Cornellesbians holds weekly meetings. Call 256-6482 for specific location and discussion topic.

The Cornell Outing Club holds weekly meetings. The meeting time is 7:30 at Japes (behind Noyes Lodge with the canoes on the roof).

Thursday

GAYPAC holds weekly business meetings in Loft III, Willard Straight Hall at 7 p.m. Discussion to follow at 8 p.m. Call 256-6482 for more information.

Music

17th Century Music Featured

On Sunday, Feb. 24, at 4 p.m., Barnes Hall will ring with the works of 17th century composers Frescobaldi, Montalbano, Uccellini, Marini, Bonporti, Byrd, and Biber. In addition, Baroque violinist Robert Seletsky and harpsichordist Sandra Mangsen will play a Passacaglia by contemporary composer Gyorgy Ligeti.

Manzoni Requiem Scheduled March 3

Approximately 250 singers and instrumentalists will fill the Bailey Hall stage at Cornell Sunday afternoon, Mar. 3, to present one of the most popular works in the choral-orchestral repertoire, Giuseppe Verdi's dramatic Manzoni Requiem. The participants are the Cornell University Glee Club and Chorus, the Cornell Symphony Orchestra and guest soloists, all under the baton of Edward Murray. The public is invited to the 4 p.m. performance free of charge, and no tickets will be required.

The Requiem was composed in memory of and admiration for Alessandro Manzoni, a Milanese writer, who died in 1873. Sometimes called Verdi's "finest opera" it had its first performance May 22, 1874 in the San Marco Church, Milan. Under the composer's direction, with a chorus of 120 and orchestra of a hundred and leading opera singers of the day, it was an immediate success and has continued to be a favorite of performers and audiences ever since.

The four soloists Sunday are Christine Hore, soprano; Cheryl Littell, mezzo-soprano; Jack Darling, tenor and Edward Bogusz, bass. Hore, a native of Australia, studied at the American Conservatory in Chicago. She made her debut in Wagner's "Das Ringold" with the Australian Opera, and since then has sung in numerous operas and concerts. Littell will be remembered for her performance in the title role of "The Medium" with the Ithaca Opera last fall. She has sung frequently with the Pittsburgh Chamber Opera, and with the Radio-TV and Concert Choir of Spain.

Darling completed a master's degree in music at SUNY Binghamton, where his teacher was David Clatworthy. He has sung with the Tri-Cities Opera and its touring company. In December he was soloist with the Cornell Chorale at Sage Chapel in an all-Bach concert.

Bogusz, a Philadelphia resident, taught at Ithaca College last year, and this year is a visiting professor of voice at Cornell. A singer with wide experience, he includes among his many roles Osmin in Mozart's "Abduction from the Seraglio," which he sang in 1984 with the Ithaca Opera. His most recent role was Seneca in an Iowa production of Monteverdi's "Coronation of Poppea."

Sunday

Feb. 22, 4:00 p.m. Barnes Hall. 17th Century Chamber Music: Sandra Mangsen, harpsichord; Robert Seletsky, violin. Works of Frescobaldi, Byrd, Biber and Corelli. Sponsored by the Department of Music.

Friday

March 1, 8:15 p.m. Barnes Hall. Cornell Jazz Ensemble, directed by Al Hamme. Sponsored by the Department of Music.

Saturday

March 2, 8:15 p.m. Barnes Hall. William Cowdery, harpsichord. J.S. Bach's "The Art of Fugue," with an original completion (Bach Festival). Sponsored by the Department of Music.

Sunday

March 3, 4:00 p.m. Bailey Hall. Verdi Requiem: Cornell Chorus and Glee Club, Soloists, Cornell Symphony Orchestra, conducted by Edward Murray. Sponsored by the Department of Music.

Religious Events

Courses

"Basic Judaism: History and Jewish Thought", taught by Rabbi Larry Edwards, on Monday, February 25, at 7:00 p.m., Room 314, Anabel Taylor Hall.
"Parshat HaShavua", (discussion of weekly Torah portion), with Chana Silberstein, on Monday, February 25, at 8:30 p.m., 112 Schuyler Place.

Religious Services

Friday

Feb. 22, 6:00 p.m. Founders Room, Anabel Taylor Hall. Shabbat Services, Conservative Egalitarian Minyan.

Feb. 22, 6:00 p.m. Anabel Taylor Chapel. Shabbat Services, Reform Minyan.

Saturday

Feb. 23, 9:15 a.m. Edwards Room, Anabel Taylor Hall. Shabbat Services, Orthodox Minyan.

Feb. 23, 10:00 a.m. Founders Room, Anabel Taylor Hall. Shabbat Services, Conservative Egalitarian Minyan.

Sunday

Feb. 24, 11:00 a.m. Sage Chapel. Speaker: Blu Greenberg, President, Jewish Book World, New York, N.Y.

March 3, 11:00 a.m. Sage Chapel. Speaker: Joseph Cardinal Bernardin, Archbishop of Chicago.

Friday

March 1, 6:00 p.m. Founders Room, Anabel Taylor Hall. Shabbat Services, Conservative Egalitarian Minyan.

March 1, 6:00 p.m. Anabel Taylor Chapel. Shabbat Services, Reform Minyan.

Saturday

March 2, 9:15 a.m. Edwards Room, Anabel Taylor Hall. Shabbat Services, Orthodox Minyan.

March 2, 10:00 a.m. Founders Room, Anabel Taylor Hall. Shabbat Services, Conservative Egalitarian Minyan.

Catholic

Mon.-Fri., 12:15 p.m. Anabel Taylor Chapel. Catholic Mass.

Every Saturday, 5 p.m. Anabel Taylor Auditorium. Catholic Mass.

Every Sunday, 9:30 & 11 a.m., 5 p.m. Anabel Taylor Auditorium. Catholic Mass. Sacrament of Reconciliation by appt. G-22 Anabel Taylor Hall.

Christian Science

Every Thursday, 7 p.m. Anabel Taylor Founders Room.

Episcopal

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

Friends (Quakers)

Every Sunday Anabel Taylor Edwards Room. Meeting for Worship at 11 a.m.; Adult Discussion and First Day School at 9:45 a.m. Babysitting provided.

Korean Church

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

Lutheran

Every Sunday, 10:45 a.m. Worship Service. Sunday Church School at 9:30 a.m.

Muslim

Every Friday, 1 p.m. Anabel Taylor Edwards Room. Juma Prayer. Anabel Taylor 218, Zuhr, Asr and other prayers.

Every Sunday, 12:30 p.m. Anabel Taylor Hall. Sunday meeting, discussion groups, children's classes, etc.

Protestant Cooperative Ministry

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

Seventh Day Adventists

Every Friday, 7:30 p.m. Anabel Taylor Room 314.

Seminars

Animal Science: "Philosophy of an Effective Teaching Program," Dan Sisler, professor of agricultural economics, 11:15 a.m. Monday, Feb. 25, 34S Morrison Hall.

Applied Mathematics: "Simulated Annealing—An Explanation and Some Convergence Theory," Bruce Hajek, University of Illinois at Urbana-Champaign, 4 p.m. Friday, Feb. 22, 275 Olin Hall.

Applied Mathematics: "On Some New Jacobi Algorithms," K. Veselic, Hagen, 4 p.m. Wednesday, Feb. 27, 275 Olin Hall.

Agronomy: "Mixed Additive and Multiplicative Models of Two-Say Data Tables," Hugh G. Gauch Jr., Agronomy, 4 p.m. Tuesday, Feb. 26, 135 Emerson Hall.

Astronomy: "Masers Around Old and Young Stars," Charles Alcock, MIT, 4:30 p.m. Thursday, Feb. 28, Space Sciences 105.

Atomic and Solid State Physics: Theory Seminar: "Heavy Fermions and their Superconductivity," C. Varma, AT&T Bell Labs, 1:15 p.m. Thursday, Feb. 21, 701 Clark Hall.

Atomic and Solid State Physics: "Title TBA" D. Bishop, AT&T Bell Labs, 4:30 p.m. Tuesday, Feb. 26, 700 Clark Hall.

Chemical Engineering: "Continuous Culture with Recombinant Organisms," David DiBiasio, chemical engineering, Worcester Polytechnic Institute, 4:15 p.m. Tuesday, Feb. 26, Olin 145(A).

Chemistry: "Nature of Radical-Molecule Reactivity: Observations in Laboratory and Stratosphere," James Anderson, Harvard, 4:30 p.m. Thursday, Feb. 21, 119 Baker Lab.



On Sunday, March 3, the Tompkins County Arts Council in cooperation with The John F. Kennedy Center for the Performing Arts Program for Children and Youth, will present a dance/puppetry production of "The Tale of Peter Rabbit" at the Statler Auditorium. Beatrix Potter's story has been made larger than life as illustrated here by the 10-foot tall Mr. McGregor chasing Peter Rabbit out of his garden. Tickets for the 2 p.m. and 4 p.m. performances cost \$4 for children, students and senior citizens, and \$5 for adults.

Chemistry: "The Chemistry of High Oxidation State Dinitrogen Complexes: Is It Relevant to the Biological Reduction in Dinitrogen?" Richard Schrock, MIT, 4:40 p.m. Monday, Feb. 25, Baker 119.

Design and Environmental Analysis: "China Report: Textiles and Technology," Vivian White, 4:30 p.m. Tuesday, Feb. 26, 317 Van Rensselaer Hall.

Environmental Toxicology: "Animal Bioassay for Carcinogenesis: Is It the Right Way?" T. Colin Campbell, Nutritional Sciences, 12:15 p.m. Friday, Feb. 22, N207 Martha Van Rensselaer Hall.

Floriculture and Ornamental Horticulture: "Modelling Growth and Development in Variant Life Forms of Plants," Prof. Marvin P. Pritts, 12:15 p.m. Thursday, Feb. 21, 37 Plant Science.

Food Science: "The Biotechnology Program at Cornell," Gordon Hammes, Biotechnology Program, 4:30 p.m. Tuesday, Feb. 26, 204 Stocking Hall.

Genetics: "Molecular Basis of Mutations Caused by Transposable Elements in Maize," Susan Wessler, Botany, University of Georgia, Athens, 4 p.m. Monday, Feb. 25, 135 Emerson Hall.

Geological Sciences: "Proterozoic and Early Cambrian Rifting in Utah, Nevada and California: Support for the Early Cambrian Dispersal of a Supercontinent," Nicholas Christie-Blick (Lamont-Doherty) 4:30 p.m. Tuesday, Feb. 26, Snee 1120.

International Nutrition: "Liver Cancer Selenium: Potential for Chemo Prevention in the Peoples Republic of China," Larry Clark, Preventive Medicine, College of Veterinary Medicine, 12 p.m. Thursday, Feb. 21, 130 Savage Hall.

Jugatae: "Field Studies on Oviposition-Determining Pheromones of Apple Maggot Flies," Dr. Anne Averill, 4 p.m. Monday, Feb. 25, Caldwell 100.

Manufacturing Engineering (COMPEP): "Modeling, Control and Simulation of Robot Motion," Prof. Ming Leu, Cornell, 4:30 p.m. Thursday, Feb. 21, 282 Grumman Hall.

Material Science and Engineering:

"Statistical Mechanics of Small Systems: Drops and Pores," K. Gubbins, Cornell, 4:30 p.m. Thursday, Feb. 21, 100 Bard Hall.

Neurobiology and Behavior: "Mixture Suppression as a Molecular Mechanism for Detection of Chemical Stimuli Against Noisy Backgrounds," Jelle Atema, Marine Biological Laboratories, Boston University, 12:20 p.m. Thursday, Feb. 21, Morison Seminar Room, Corson/Mudd Hall.

Ornithology: "Spring Hawk Migration at Derby Hill, New York," Gerry Smith, Derby Hill Bird Observatory and Onondaga Audubon Society, 7:45 p.m. Monday, Feb. 25, Laboratory of Ornithology Sapsucker Woods Road.

Pharmacology: "Ca++ Homeostasis in Rat Insulinoma and the Action of the Inositol 1,4,5-Trisphosphate," Dr. Marc Prentki, Biochemistry and Biophysics, University of Pennsylvania, 4:30 p.m. Monday, Feb. 25, D-105 Schurman Hall.

Physiology: "Fetal-Maternal Interactions in Equine Pregnancy," Doug Antczak, veterinary microbiology, Baker Institute, Cornell, 4:30 p.m. Tuesday, Feb. 26, G-3 Veterinary Research Tower.

Plant Biology: "ATP-Dependent Proton Pumping in Membrane Vesicles from Radish Seedlings," M. Ida De Michelis, University of Milan, 11:15 a.m. Friday, Feb. 22, 404 Plant Science Building.

Plant Pathology: "Use of Pathover-Specific Phages in the Detection and Identification of Pseudomonas Syringae pv. Tomato," Diane Cuppels, Agric. Canada, London, Ontario, 4:30 p.m. Tuesday, Feb. 26, 404 Plant Science.

Plasma Studies: "Space Potential and Fluctuation Measurements with an Ion Ring Probe," Prof. R. Hickok, Rensselaer Polytechnic Institute, 4:30 p.m. Wednesday, Feb. 27, 282 Grumman Hall.

Psychology: "Hormones and the Development of Sex Differences in Behavior: Comparative Perspectives," Dr. Elizabeth Atkins-Regan, Psychology, Cornell, 3:30 p.m. Friday, Feb. 22, 202 Uris Hall.

Remote Sensing: "Remote Sensing Studies in Forestry," Darrel Williams, NASA Goddard Space Flight Center, Greenbelt, Md., 4:30 p.m. Wednesday, Feb. 27, 110 Hollister Hall.

Rural Studies: "Uneven Development: Thematic Comparisons of Rural and Gender Relations in the U.S. and Abroad," Shelly Feldman, assistant professor of rural sociology and women in development, 12:15 p.m. Thursday, Feb. 21, 401 Warren Hall.

Sociology: "Demonstration of Use of SCSS/Interactive Computer, Fred Halley, SUNY Brockport, 12:15 p.m. Monday, Feb. 25, 302 Uris Hall.

Statistics: "A Rational Interpretation of the Ridge Trace," Gary McDonald, General Motors Research Labs, Warren, Mich., 3:30 p.m. Wednesday, Feb. 27, 105 or 120 ILR Conference Center.

Theoretical and Applied Mechanics: "The Interaction Between Elastic Waves and (Running) Cracks—A Dynamic Photoelastic Excursion," Prof. H. P. Rossmanith, Technical University, Vienna, 4:30 p.m. Wednesday, Feb. 27, 205 Thurston Hall.

Vegetable Crops: "Agronomic, Sociological and Genetic Aspects of Adaptation and Yield of Beans," Donald H. Wallace, Plant Breeding; Patricia Garrett, Rural Sociology; Roger F. Sandsted, Vegetable Crops, 4:30 p.m. Thursday, Feb. 28, 404 Plant Science.

Theater

Thursday-Saturday

Feb. 21, 22 & 23, 8:15 p.m. *Willard Straight Theatre. "A Midsummer Night's Dream". Artistic director David Feldshuh will lead the twenty-one member cast in this fast-paced, madcap story of confused lovers and bumbling bumkins, guaranteed to entertain young and old alike. Sponsored by the Department of Theatre Arts.

Sunday

Feb. 24, 2:00 p.m. Herbert F. Johnson Museum of Art. "Deafman Glance: Video 50", by Robert Wilson. Cosponsored by Cornell Cinema.

Thursday-Saturday

Feb. 28, March 1 & 2, 8:15 p.m. *Willard Straight Theatre. "A Midsummer Night's Dream". Artistic director David Feldshuh will lead the twenty-one member cast in this fast-paced, madcap story of confused lovers and bumbling bumkins, guaranteed to entertain young and old alike. Sponsored by the Department of Theatre Arts.

Sunday

March 3, 2:30 p.m. *Willard Straight Theatre. "A Midsummer Night's Dream".

The Week in Sports

Women's Hockey Team on a Roll, Plays Two This Weekend

The women's hockey team, under the direction of first-year coach Dave Harackiewicz, has made tremendous progress this season. The Big Red currently has a four-game winning streak, raising its record to 9-10 overall and 3-2 in the Ivy League — a solid improvement from last year's 5-21 mark.

The team will try to keep its momentum going this weekend as it plays two games at Lynah Rink. The Red will entertain Yale Saturday and Sunday in its final home games of the year, with both contests starting at 2 p.m. These are two of seven sporting events on campus this weekend. The busy slate of action gets under way Friday with the wrestling team meeting Pennsylvania at 5 p.m. in Teagle Hall; the wrestlers take on Princeton Saturday, also at 5 p.m. The men's and women's fencing teams have a match against Penn at noon in Helen Newman Hall Saturday. The men's and women's swimming teams continue their home stand with a meet against Dartmouth that afternoon; the women's competition scheduled for 1 p.m., the men's at 4 p.m. Finally, the women's basketball team is home to play Brown Saturday evening at 7:30 in Barton Hall.

The women's hockey team is coming off its finest weekend of the season, as it defeated Dartmouth and Harvard by scores of 4-1 and 2-1. The squad was led by junior Amy Stanzin and sophomore Patricia Baumann, who were both instrumental in the victories. Stanzin scored the game-winner and Baumann added an insurance goal in Saturday's contest, while each player had a goal and an assist Sunday. Stanzin is now Cornell's leading scorer with 17 goals and 18 assists for 35 points, as she now has 47 goals and 40 assists in her Big Red career. Baumann has moved into second place with 13 goals and six assists.



SCOTT O'NEIL
Men's Wrestling



SANDY GILBERT
Women's Hockey

Alison Shull is right behind Baumann with 10 goals and eight assists, while Karen Shull and Molly Brown each has 12 points with respective totals of 1-11 and 3-9. Junior Sandy Gilbert was in goal for three victories this past week, stopping a total of 62 shots and allowing just four goals. She now has a goals against average of 3.53 and a save percentage of .845.

In defeating Harvard, the Big Red avenged a 5-1 loss to the Crimson in Cambridge in December. Cornell has already played both Yale and Brown this season. The Big Red defeated the Elis in overtime at New Haven, 4-3, while losing a close decision to Brown in Providence, 7-5.

The Cornell men's wrestling team will be looking to improve upon its 2-2 Ivy League record when it entertains Penn and Princeton this weekend. The Big Red lost at Columbia last Saturday, 22-20.

Winning matches for the Red were junior John Cvetic at 142 pounds, senior Pat Welch at 150, junior Phil Wiles at 158 and senior Scott O'Neil at 177. The Red leads the series with both Penn and Princeton, owning a 55-15 advantage against the Quakers and a 23-13 margin vs. the Tigers. Last season, Cornell defeated Princeton, 22-19, and topped Pennsylvania, 36-6.

The men's and women's fencing teams will both take an 8-7 overall record into Saturday's match with Pennsylvania. The two squads had a great deal of success in their last dual competition on Feb. 9. The men's team won two out of three matches, defeating MIT (14-13) and Duke (15-12) while losing to Harvard (18-9). The women defeated all three schools, posting victories over Harvard (11-5), MIT (on the number of touches after the bout ended at 8-8) and Duke (10-6).

The foil unit has been very strong for the men's team this season. Robert Talley had a 7-1 record two weekends ago, while Brian Bailey was 7-2 and Joseph Kirk was 5-1. Clifford Rawn was 4-4 to lead the foil team.

The women have been led all season long by senior Christine Hamori and junior Siobhan Moss. Hamori was undefeated in 11 bouts in the three-team competition in Boston, while Moss went 9-3. Hamori now has a 20-3 mark this year and Moss is right behind her at 16-8.

The men's and women's swimming teams close out their home schedule against Dartmouth on Saturday. Both squads lost at home this past weekend. The men's team, now 7-4 overall and 4-4 in the Eastern Swimming League, had a four-meet winning streak snapped when it was defeated by the Crimson, 77-36. The women lost an 83-57 decision to fall to 3-8 overall and 1-4 in the league.

Junior Randy Sprout continues to pace

the men's squad, as he won both the 50- and 100-yard freestyles on Saturday. The previous week, Sprout won the 200 freestyle in the meet against Brown. Sophomore Jim Murff was the team's only other winner Saturday, capturing the 200 breaststroke.

The women's meet was highlighted by a strong performance from junior captain Jill Pechacek, who broke two school records. Pechacek re-established her marks in the 100 and 200 backstrokes with respective times of 1:10.147 and 2:10.345. Sophomore Ursula Kurman also broke a team record, as she posted a winning time of 54.934 in the 100 free. A versatile performer, Kurman won the 200 breaststroke against Brown one week earlier.

The women's basketball team will be seeking revenge when it entertains Brown Saturday night. The Big Red lost to the Bruins in Providence just three weeks ago, 81-62. Cornell will be trying to snap a four-game losing streak, as the Big Red dropped contests on the road at Harvard (68-53) and Dartmouth (77-66) this past weekend. Cornell is now 8-12 on the year, including a 2-5 mark in the Ivy League. Brown currently leads the Ivy standings with a 6-1 record. The Bruins defeated Penn while losing to Princeton in their most recent action.

Cornell has had very balanced scoring this year. It had three players in double figures against both Harvard and Dartmouth. In the game with Harvard, Mary Browne scored 18 points (including a 6x6 performance from the foul line), and Karin Dwyer and Tracy Sullivan added 11 and 10 points, respectively. The next night, Heidi Johnson scored 16 points, followed by Dwyer with 14 and Browne with 10.

Cornell trails in the series with Brown, 8-2, but the Big Red won last year's game at Barton Hall, 72-67. It was just one of two losses that Brown, the defending Ivy champion, suffered in the league last season.

CIVITAS

BELLE SHERMAN ELEMENTARY SCHOOL, located in easy walking distance from campus, needs **TUTORS** for students at all levels. Can you help a student with reading or math: Twice a week, an hour each, would enrich the student's life and yours as well.

Downtown elementary, **CENTRAL SCHOOL**, will accept volunteers even once a week and they have a great diversity of **TUTORING NEEDS**. Come in, look over our list, and see what you can match with your free time and special interests.

ITHACA HIGH SCHOOL needs a volunteer to read a book on tape for special students. It is a 500 page novel and these students need aural help as they read it themselves. The recording equipment is available from 8 a.m. to 3 p.m. daily. If a volunteer could put a few chapters a week on tape that would answer the need.

In the **LANGUAGE EXCHANGE PROGRAM** we need English speakers who want to learn Persian, Portuguese, Korean or Japanese. On the other side our need is for native speakers of Hebrew, French, German, Italian, Spanish, Rus-

sian or Polish who wish to practice speaking English. We hope you can become a part of this popular program.

CAMP MACCORMICK, a prison for youthful males in Brooktondale, is searching for people who can help with arts and crafts, green house activities, tutoring or physical recreation any day of the week between 3 and 9 p.m. Four hours a week is needed.

Here is a special opportunity for pre-med students. **TOMPKINS COMMUNITY HOSPITAL** is accepting, for a limited time, more volunteers to help in the **EMERGENCY ROOM**. You can make up beds, deal with "traffic flow" when there are many people, transport patients and samples and observe procedures, with staff approval. Come into the **CIVITAS** office for details of imminent training session.

AFTER SCHOOL PROGRAM in downtown location has children who range in age from about 5 to 9 and is hoping to find volunteers who are friendly and will help the children have fun and learn to get along with each other. Help supervise activities or lead your own on any week day from 2:30 to 5:30.

PARKIT, the citizen action group devoted to combatting drunken driving through education and legislation, is planning a day-long "FESTIVAL" in downtown Ithaca in April. They want help in various ways, like running a projector and poster. Anyone with a real concern for the subject can help.

LEARNING WEB at Anabel Taylor Hall is looking for a volunteer to teach **COMPUTER PROGRAMMING ON APPLE II E** to a ninth grader. He does know some programming in BASIC, but would like to know more. Do you have this skill and an interest in young people?

Is your interest **ENVIRONMENT OF NATURAL RESOURCES**? 4-H needs someone to prepare and teach a 45 min. lesson to groups between 9 a.m. and 1:30 p.m. one or more days of the annual Natural resource Appreciation Program. If you want to do this you are requested to attend two organizational meetings. Call **CIVITAS** for dates.

Other 4-H needs: For **DEMONSTRATION DAY** volunteers to work with youths helping them develop a public presentation that they can give; two youths to demonstrate **BREAK DANCING**; youths to teach **JAZZ** or **MODERN DANCE**. Also, West Village after school program needs someone to work with youths making up their own plays, using whatever resources are available.

COLLEGETOWN RESIDENT with special situation because of an accident needs someone to take her shopping for groceries and to the laundromat on weekends. **CIVITAS** can help by providing the car, if you can provide the time and sensitivity.

Could you work **ONE TO ONE** with a **DISABLED ADULT**? Tompkins County Youth Bureau Recreation Mainstreaming Service can provide you the opportunity to establish a trusting relationship and teach living and socialization skills. The times are flexible.

BECOME A FRIEND TO A FOREIGN STUDENT studying intensive English at Cornell. You can provide an opportunity for the foreign student to practice English in a relaxed atmosphere and be both a companion and cultural guide.

Graduate Bulletin

The final date for course change or drop without special processing fee of \$10 is Friday, March 22. The fee is now being charged, however, to add courses.

If you intend to complete degree requirements for a June 2 degree you must fill out a form, which can be obtained at the Graduate School office, Sage Graduate Center. You must return the form to the Graduate School by Friday, March 29, so that your name will appear in the commencement program and your diploma will be ready for commencement.

Summer graduate tuition and assistantship/fellowship applications will be available in the Graduate Fellowship Office, 116 Sage Graduate Center, on March 1, 1985.

TWO RESIDENCES FOR THE ELDERLY need Cornell students to be visitors, letter writers, readers, entertainers, craft teachers or the like. Hours are flexible and your youthful presence can make these people very happy. This is a project your group could undertake.

TO RESPOND: COME TO CIVITAS, 119B Anabel Taylor Hall, Open M, W, F 9-3; T, Th 10-2. Or call 256-7513. Funded in part by the Student Finance Commission and open to the entire Cornell community.

Barton Blotter

Nearly \$1,000 in cash was stolen in 10 different incidents of theft reported on campus during the period Feb. 11 through 17, according to the morning reports of the Department of Public Safety.

In addition to the thefts of several wallets from locker room areas on campus, incidents included \$150 in quarters taken from Robert Purcell Union, \$180 taken from the Temple of Zeus in Goldwin Smith Hall, \$400 from an office in McGraw Hall, and \$100 from an office in Plant Science.

In all, there were 15 thefts reported on campus during the seven-day period with losses totaling \$1,265 in cash and valuables. The total cash loss was set at \$965.

Six persons were referred to the Judicial administrator on various charges: three for reckless endangerment with a pellet gun; one for disorderly conduct in Lynah Rink; another for stealing \$13.94 in batteries from the campus store; and one for tampering with a sign at the Pancake House and also with a Blue Light telephone.

Another person was charged with speeding and driving while intoxicated on campus.

Cornell University

University Personnel Services

Day Hall

Ithaca, New York 14853

607/256-5226

Please Note:

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

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

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

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

This listing is also available on CUINFO

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

New vacancies are listed for two weeks in Job Opportunities.

*Asterisks identify jobs that were not listed last week.

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

munication skills necessary. Experience with personal computer desirable. Please send cover letter and resume to Ralph D. Jones.

Job Number: PA417

Position: Systems Analyst II

Department: Systems Office, Olin Library

Description: Evaluate and analyze system software components as part of the library's effort to implement local online integrated information system.

Requirements: Bachelor's degree or equivalent in computer science; MLS desired. Some experience in programming and systems analysis essential. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT054

Position: Technical Coordinator

Department: Systems Office - Olin Library

Description: Provide technical support in all areas of library's automated systems environment. Coordinate RLIN system services including equipment maintenance and installation; will be involved in training, education and support for library staff in use of microcomputers.

Requirements: Bachelor's degree or equivalent desirable. Experience with microcomputers; technical experience with computer peripheral equipment: terminals, printers, modems, RS232 protocol. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT055

Position: Assistant Dean/Student Development Specialist III

Department: Arts & Sciences, Dean's Office - Academic Advising Center

Description: Counsel and advise students regarding academic programs, career planning and other special academic program needs. Assist students in college to maximize use of available resources.

Requirements: Master's degree or equivalent experience. Ph.D. and college teaching in the liberal arts preferred. Experience counseling and advising students or academic programs essential. Please send cover letter and resume to Ralph D. Jones.

Job Number: PA0411

Clerical

All applicants interested in positions requiring typing must take an official University test. Tests are given Mondays and Wednesdays at 8:00 a.m., Room 337, Statler Hall. Please contact Staffing Services for an appointment.

*Position: Administrative Aide, GR22

Department: University Development

Description: Provide administrative support to the Director of Development Operations with budget, personnel, and administrative functions of the Office of University Development.

Provide specialized administrative support in the development, implementation, and interpretation of human resource and budget policies and procedures and provide direct assistance in the allocation of human resources in several key areas.

Requirements: Associate's degree or equivalent in education, experience and training. Medium typing. Excellent organizational, communications and interpersonal skills. Ability to handle confidential information. Ability to prioritize assignments and work under pressure. Experience in office, human resource, budget management. Knowledge of Cornell desirable.

Minimum Starting: \$13,141

Job Number: C076

*Position: Senior Special Collections Assistant, GR20 (Repost)

Department: History of Science-Olin Library

Description: Catalog rare books using existing catalog copy; catalog special rare books such as manuscripts and graphics; provide specialized information service; supervise reading room and circulation; make decisions about binding and preservation; search bibliographic records; maintain departmental catalogs; other special projects as appropriate.

Requirements: Bachelor's degree or equivalent in an appropriate field. Light typing. Fluency in French required. Reading knowledge of Latin desirable. Ability to interact effectively with students and scholars. Ability to perform complex tasks with accuracy. Appreciation of nature and significance of rare books and research collections.

Minimum Starting Salary: \$11,739

Job Number: C024

*Position: Secretary, GR18

Department: Communication Arts

Description: Provides primary administrative and clerical support for three faculty including teaching, research, and extension activities.

Continued on Page 10

Job Opportunities

Cornell University is an equal opportunity, affirmative action employer.

Jones by February 22, 1985.

Job Number: PA041

Position: Auditor II (Repost)

Department: Auditors Office

Description: Perform audits of various units of Cornell University Medical College located in New York City. Responsible for planning, direction and supervision of cash inventories, accounts receivables, faculty practice plan, payables and payrolls for the Cornell University Medical College in New York City.

Requirements: Bachelor's degree or equivalent in accounting. Three years experience in public accounting or internal auditing preferred. Excellent interpersonal skills essential. Send cover letter and resume to Ralph D. Jones by February 22, 1985.

Job Number: PA046

Position: Mechanical Engineer (Repost)

Department: Facilities Engineering

Description: Design and prepare construction documents for a wide variety of HVAC and mechanical systems including laboratory ventilation, plumbing and fire protection systems.

Requirements: Bachelor's degree in mechanical engineering and applicable experience required. Experience with steam and chilled water utilities desirable. Strong interpersonal skills essential. Please send cover letter and resume to Ralph D. Jones by February 22, 1985.

Job Number: PA042

Position: Assistant Director, Financial Aid (Repost)

Department: Office of Financial Aid

Description: Responsible for coordinating and administering financial aid programs for minority and disadvantaged students. Act as a liaison with Minority Education Office and State Programs Office. Counsel students and parents about financial aid. Perform need analysis and "packages" aid.

Requirements: Bachelor's degree or equivalent required. Master's in Student Personnel, Higher Education Administration, Counseling, or related areas preferred. Minimum of one to three years of financial aid or related experience required. Please send cover letter and resume to Ralph D. Jones.

Job Number: PA0410

Position: Research Support Specialist

Department: Division of Nutritional Sciences

Description: Participate in research project for Indonesian government on the development of a national nutritional status monitoring system. Develop data collection protocols, evaluate training manuals and procedures, evaluate procedures for data analysis. Train staff in computer operation and analytical methods. Assist in evaluation of a validation study, especially regarding sample design and data analysis. Must relocate to Indonesia for the position. Until March 1986.

Requirements: Master's degree in nutrition. Two or more years analytical experience, including computer and statistical analyses. Knowledge of nutritional surveillance systems. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT064

Position: Project Leader II

Department: Computer Services (APS)

Description: Plan, supervise and coordinate

the development, implementation and maintenance of an ongoing major administrative system. Interface new systems and programs with existing systems and programs. Investigate and evaluate outside software systems to integrate or replace current production systems. Prepare estimates of programming time and computer production costs for given proposals.

Requirements: Master's degree or the equivalent combination of education and experience. Considerable systems design and computer experience is essential. A knowledge of interactive administrative systems, IBM operating systems and two major programming languages is essential. Supervision of programmers in a development group is desirable. Experience with the operation of a University physical plant design is also desirable. Please send cover letter and resume to Cynthia Smithbower.

Minimum Starting Salary: \$23,500

Job Number: PT063

Position: Systems Programmer II

Department: Materials Science Center

Description: Develop and maintain the MSC Prime computer system software in support of the research programs of the Materials Science Center through the multi-user computing central facility in Clark Hall.

Requirements: Bachelor's degree or equivalent in physical science, engineering or computer science. Ability to design and operate complex software systems including network requirements. Must have programming experience in Fortran, assembly languages and highly structured languages. Please send cover letter and resume to Cynthia Smithbower.

Minimum Starting Salary: \$18,000

Job Number: PT065

Position: Administrative Supervisor (Repost)

Department: Africana Studies and Research Center

Description: Manages the daily operations of the Africana Studies and Research Center administrative office and supervises the clerical support staff; provides support for director; maintains administrative and personnel files; assists for preparation of budget; maintains records of expenditures and allocations, etc.

Requirements: Bachelor's degree or equivalent and 2 years office experience or Associate's degree or equivalent and 4-6 years office experience. Strong interpersonal, communication, organizational and supervisory skills. Accounting and budgeting knowledge, word processor and computer. Send cover letter and resume to Esther L. Smith by February 28, 1985.

Job Number: PC332

Position: Architect/Project Manager

Department: Architectural Services

Description: Manage major architectural projects for the University. Responsibilities include direction progress meetings for project setting and monitoring project schedules and budgets; coordinate activities of departmental professionals in supporting the projects; prepare feasibility studies and other project statistics to guide program; interview and advise on the selection of A/E consultants and assist in the negotiation and preparation of contracts.

Requirements: Bachelor's degree in architecture required. Architectural registration desirable. Minimum ten years responsible experience in architectural project management. Demonstrated excellent organizational and com-

Administrative/Professional

The minimum salaries listed are for recruitment purposes only.

*Position: Assistant Director Cornell Clubs
Department: Alumni Affairs
Description: Assist Director of Club Affairs in planning overall policies, procedures and goals for Cornell Clubs Nationally. Individual will be responsible for maintaining contacts with Regional Directors, Cornell Public Affairs officers and Cornell Club officers; coordinating in-house administration for Cornell Club annual programs and young alumni activities. Some travel required.

Requirements: Bachelor's degree or equivalent. Excellent verbal, written and interpersonal skills essential. 3 to 4 years experience working with volunteer organizations. Please send cover letter and resume to Ralph D. Jones by March 6, 1985.
Job Number: PA072

Position: Development Officer
Department: College of Human Ecology
Description: Work closely with faculty to organize, develop and direct programs designed to obtain broad external support for educational and research activities of the college. Communicate college interests and needs to major corporations and foundations. Develop networking relationships and organize strategies to maintain relationships among faculty, alumni and corporations.

Requirements: Bachelor's degree or equivalent. At least 2 years experience in either corporate public affairs or communications, research administration or university development. Demonstrated excellent interpersonal and communication skills with a commitment to institutional advancement in higher education. Please send cover letter and resume to Judith Morgan.

Job Number: P066

Position: Assistant Bursar

Department: Bursar

Description: Under general supervision, manage the operations, maintenance, enhancement and development of the automated student receivables, student loan and installment plan systems.

Requirements: Bachelor's degree or equivalent. Experience in a computer related field essential. 1-2 years experience in planning and/or development of Administrative data processing systems. Familiarity with the Cornell student accounts programs, accounting systems and computer environment preferred. Project leader and/or supervisory experience helpful. Microcomputer knowledge necessary. Please send cover letter and resume to Ralph D. Jones by March 1, 1985.
Job Number: PA061

Position: Staff Architect (Repost)

Department: Facilities Engineering

Description: Perform architectural design and drafting services for renovation, alteration, and maintenance projects. Coordinate the construction of such projects and assist in major design projects.

Requirements: Bachelor's degree in Architecture and at least one year applicable experience. Please send cover letter and resume to Ralph D.

Job Opportunities

Continued from Page 9

ordinates administrative matters with departmental administrator; act as backup receptionist; heavy typing load; schedule appointments; reserve rooms; prepare handouts; coordinate conferences, and supporting details, etc. Other clerical duties assigned.

Requirements: High school diploma or equivalent. Business or secretarial school desirable. Heavy Typing. At least 1-3 years secretarial or office experience. Typing speed is very important. Developed word processing skills (IBM PC, Word Perfect, etc.) preferred and/or willingness and ability to learn quickly essential. Minimum Starting Salary: \$10,500
Job Number: C071

*Position: Secretary, GR17
Department: Residence Life
Description: Provide secretarial and receptionist support in an undergraduate residence hall. Handle bookkeeping functions for residence hall; maintain files; distribute mail; coordinate student clerical help, and act as a resource person; prepare and type reports, manuscripts and correspondence; run duplicating and copying machines. Daily contact with students and public.

Requirements: High school diploma or equivalent. Medium typing. Some secretarial experience. Knowledge of record/bookkeeping helpful. Strong organization, interpersonal, and communication skills.

Minimum Starting Salary: \$9,967
Job Number: C075

*Position: Office Assistant, GR17
Department: Admissions
Description: Process applications for Central Admissions Department. Processing involves data entry of forms, alphabetizing, filing, mailings. Other clerical duties as assigned. 9 month position, August 15 - May 15, 8:00 a.m. - 4:30 p.m. (overtime expected)

Requirements: High school diploma or equivalent. Medium typing. Ability to use a computer terminal. Work under pressure and handle a large volume of material.
Minimum Starting Salary: \$9,967
Job Number: C077

*Position: Office Assistant, GR16
Department: General Stores
Description: Work in an office atmosphere writing memo issue tickets from mail in orders; making bank deposits; monitoring rental charges for storage space; filing; answering phone; keeping gas cylinder records. Other clerical duties as assigned.

Requirements: High school diploma or equivalent. Light typing. At least 3-5 years business experience. General accounting. Data entry background. Excellent organizational, interpersonal and communication skills.

Minimum Starting Salary: \$9,494
Job Number: C072

*Position: Library Aide, GR16
Department: Mann Library
Description: Maintain serial records in a large research library. Duties include checking in; claiming missing issues; sorting mail; card catalog maintenance.

Requirements: High school diploma or equivalent. Medium typing. Ability to do detailed work accurately and quickly. Some previous library experience desirable.

Minimum Starting Salary: \$9,494
Job Number: C074

Position: Administrative Aide, GR20
Department: Academic Personnel Office
Description: Provide administrative and secretarial support for the Academic Personnel Office. Secretarial duties include typing, filing, telephones, mail, etc.; administrative support includes handling academic personnel matters (appointment forms, leave requests, position classifications, etc.); drafting correspondence; maintaining data records on academic staff members; accounting and purchasing functions. Other duties as assigned.

Requirements: Associate's degree or equivalent in secretarial science. Medium typing. Good typing. Strong organizational, interpersonal, and communication skills (both written and oral). Ability to work independently and to handle confidential matters a must. At least 2-3 years administrative and secretarial experience essential. Familiarity with Cornell administrative operations preferred. Familiarity with Wang word processing desired.
Minimum Starting Salary: \$11,739
Job Number: C067

Position: Accounts Assistant, GR20
Department: Plant Breeding and Biometry
Description: Post bookkeeping entries to department accounts; in charge of non-exempt payroll including preparation of appointment and benefit forms; prepare requisitions; vouchers, and maintains expenditure files; type correspondence.

Requirements: High school diploma or equivalent plus two years college or equivalent experience. Light typing. Familiarity with Cornell accounting system (ordering procedures) and personnel forms. Experience with computer terminal helpful but not required.

Minimum Starting Salary: \$11,739
Job Number: C068

Position: Secretary, GR18
Department: Human Development and Family Studies

Description: Provide secretarial support for graduate and undergraduate program administrators and 1-2 faculty. Serve as receptionist for HD & FS department main office. Duties include answering telephone; typing; filing. Other duties as assigned.

Requirements: High School diploma or equivalent. Business or secretarial school desirable. Medium Typing. Excellent interpersonal skills. Strong typing skills. Ability to work under pressure.

Minimum Starting Salary: \$10,500
Job Number: C066

Position: Office Assistant, GR18
Department: General Stores

Description: Using computer generated lists; order material for stock to maintain inventory levels; check computer lists for errors; expedite material with vendors; control back orders; answer phones.

Requirements: High school diploma or equivalent. Medium typing. Inventory control/planning experience. Strong interpersonal and communication skills. Legible handwriting, knowledge in retail sales operation helpful.

Minimum Starting Salary: \$10,500
Job Number: C062

Position: Secretary, GR17
Department: Unions and Activities

Description: Under general supervision, provide secretarial support for the Student Finance Commissions Advisor, two student finance commissions (graduate and undergraduate) and an accounts assistant, provide typing, receptionist support, mass mailings and compilations of data for reports. Perform related duties as assigned.

Requirements: High school diploma or equivalent. Some business courses. Medium typing. At least one year office experience. Good secretarial knowledge of office equipment. Ability to learn computer operations. Ability to work well with students. Excellent organizational, interpersonal and communication skills.

Minimum Starting Salary: \$9,967
Job Number: C061

Position: Office Assistant, GR17
Department: Residence Life
Description: Provide clerical support to area office. Duties include acting as receptionist; answering telephones; preparing bills and vouchers; typing; running office machines; working on special projects.

Requirements: High school diploma or equivalent with business training and/or office experience. Business or clerical training with such office equipment as electric typewriter, word processor, dictating equipment, various duplicating machines and telephone. Some bookkeeping or accounting background helpful. Strong organizational and communication skills necessary.

Minimum Starting Salary: \$9,967
Job Number: C063

General Service

*Position: Copy Preparation Specialist, GR20
Department: Graphic Arts Services
Description: Responsible for professional quality preparation of mechanical layouts for camera reproduction. Perform occasional design and layout assignments in Graphic Arts. Perform some typesetting on a computer-generated photocomposition system. Perform proofreading functions and other relevant work assignments.

Requirements: Two year community college course work in Graphic Arts or equivalent is desirable. 2 - 4 years experience in Graphic Arts. Commercial art and mechanical drawing training. Must be familiar with layout techniques,

preparation of rough and comprehensive dummies, type and type specifications. Qualified to produce camera ready mechanicals including color overlays, tints, color trapping and must be accurate in all preparation procedures.

Minimum Starting Salary: \$11,739
Job Number: S076

*Position: Dairy Worker, SO20
Department: Animal Science
Description: Milk and care for dairy cattle in maternity area as necessary, care for calves and heifers. In absence of supervisor, take charge of breeding (production and research), attend to herd health duties for entire herd. 5 days per week 40 hours per week, includes some week-ends.

Requirements: High school diploma or equivalent or adequate work experience. New York State driver's license (Class I). Two to five years experience background in dairy cattle.

Minimum Starting Salary: \$6.04/hour
Job Number: S075

*Position: Short Order Cook, SO18
Department: Cornell Dining
Description: Prepare and serve food directly to customers from a short order area.

Requirements: High school diploma or equivalent. Six months experience related to job. Familiarity with short order cooking equipment. Ability to prepare a variety of foods under pressure. Good customer relations.

Minimum Starting Salary: \$4.98/hour
Job Number: S074

*Position: Printing Assistant, SO17
Department: Media Services - Printing
Description: Operate Challenge 30 1/2-inch power paper cutter, automated collating equipment and other paper handling devices for the New York State College of Human Ecology and Agriculture and Life Sciences, as well as the Cooperative Extension network. Monday - Thursday, 8:00 a.m. - 5:00 p.m.; Friday 8:00 a.m. - 4:00 p.m.

Requirements: High school diploma or equivalent. Vocational training in printing preferred. Ability to lift up to 50 lbs. Experience in print shop or bindery required and proven mechanical ability in similar work setting.

Minimum Starting Salary: \$5.12/hour
Job Number: S072

Technical

Applications for Technical positions should include the following information:

- Scientific/technical courses completed
- Lab techniques and/or equipment (knowledge of)
- Special skills (e.g. knowledge of computer language)

*Position: Computer Operator I, GR21
Department: Cornell Computer Services - ACS
Description: Operate interactive terminals and microcomputers at a campus terminal facility. Assist users in operation of equipment. Monday - Friday 3:30 p.m. - Midnight.

Requirements: Associate's degree or equivalent preferably in data processing. Knowledge of mainframes and microcomputers. Familiarity with software packages like Lotus 1-2-3, dbase II and Word Perfect. Good interpersonal and communication skills.

Minimum Starting Salary: \$12,469
Job Number: T075

*Position: Technician, GR20 (Repost)
Department: Biochemistry, Molecular and Cell Biology

Description: Assist in experiments using recombinant DNA technology to study chromosome structure in mosquitoes. Maintain detailed notes. Position funded through 6/30/85 with continuation dependent upon renewal of grant.

Requirements: Bachelor's degree or equivalent in biological sciences or related areas. Experience with standard procedures of recombinant DNA technology and sterile techniques. Experience with microscopes desirable. Attention to detail with ability to work independently. Must be interested in learning new techniques.

Minimum Starting Salary: \$11,739
Job Number: T026

*Position: Technician, GR18
Department: Equine Drug Testing & Research - Monticello Raceway

Description: Perform analysis of blood and urine samples in a field drug testing lab at

Monticello Raceway. Routine record keeping and laboratory maintenance. Assist laboratory director as needed. 39 hours per week including Saturdays, Sundays and Holidays.

Requirements: Associate's degree or equivalent experience. Experience with thin layer chromatography. Familiarity with gas chromatography.

Minimum Starting Salary: \$10,500
Job Number: T074

*Position: Technician, GR18
Department: Equine Drug Testing & Research - Buffalo Batavia Raceways

Description: Perform analysis of blood and urine samples in a field drug testing lab at Buffalo/Batavia Raceways. Routine record keeping and laboratory maintenance. Assist laboratory director as needed. 39 hours per week including Saturdays, Sundays and holidays.

Requirements: Associate's degree or equivalent in chemistry or a related field. Some experience with thin layer and gas chromatography.

Minimum Starting Salary: \$10,500
Job Number: T073

*Position: Technician, GR18
Department: Division of Nutritional Sciences
Description: Analyze plant and animal tissues, soils and organic wastes for chemical constituents. Assist with laboratory, greenhouse and field experiments. Work with radioactive isotopes. Full time, regular until 9/30/85 (contingent on renewed funding).

Requirements: Associate's degree or equivalent in chemistry with emphasis on analytical chemistry. Some experience in instrumental analysis using atomic absorption, spectrophotometer preferred.

Minimum Starting Salary: \$10,500
Job Number: T071

Position: Computer Programmer, GR22
Department: Horticultural Sciences - Geneva

Description: Provide computer support in the Germplasm Resources Information Network system (GRIN) for the Plant Introduction Station and the National Clonal Repository. Organize and maintain this information system. Instruct and assist staff members in use of program. Entry of data from evaluation notes, inventory maintenance.

Requirements: Associate's degree or equivalent with experience or Bachelor's degree preferred in computer science. Some programming experience in either: BASIC, FORTRAN, and/or COBOL. Familiarity in working with databases and the following equipment: Perkin-Elmer CRT, DEC printer, telenet system, IBM PCST, NEC Printer, field data loggers.

Minimum Starting Salary: \$13,141
Job Number: T061

Position: Technician, GR21
Department: Avian & Aquatic Animal Medicine Duck Research Laboratory, Eastport, NY
Description: Provide assistance to virologist in microbiology laboratory and in the implementation of experiments with ducks involving production of duck biologics.

Requirements: Associate's degree or equivalent in biology. Some experience in microbiology laboratory helpful.

Minimum Starting Salary: \$12,469
Job Number: T063

Position: Technician, GR22
Department: Veterinary Pathology
Description: Work independently to perform procedures of tissue culture, virology and viral serology; assist in drug administration and blood and tissue collection with calves. Assist with necropsy procedures and histologic morphometry. Perform statistical analysis of data.

Requirements: Bachelor's degree in biology or microbiology or equivalent. Experience in handling calves; in performing tissue culture, virology and viral serology required.

Minimum Starting Salary: \$13,141
Job Number: T044

Part-time

*Position: Administrative Aide, GR19
Department: Mechanical and Aerospace Engineering

Description: Under general supervision, provide secretarial and administrative support for graduate fields of Mechanical Engineering and Aerospace Engineering. Duties include considerable records maintenance and student contact; typing, filing, answering telephone; making travel arrangements; copying; providing recep-

tionist backup. Other duties as assigned. Six hours per day, five days per week.
 Requirements: High school diploma or equivalent Associate's degree preferred. Medium typing. At least one to two years secretarial or office experience. Good typist. Excellent organizational, interpersonal and communication (written and oral) skills.
 Minimum Starting Salary: \$11,125/annual equivalent
 Job Number: C078

*Position: Building Guard, GR18
 Department: Herbert F. Johnson Museum of Art
 Description: Responsible for guarding all works of art in the building, following security and safety procedures, communicating with staff members on a regular basis. Must communicate well with the public. Act as a substitute guard and guard during use of museum events when necessary. Saturday & Sunday, 9:45 a.m. - 5:15 p.m. and when needed, (casual).
 Requirements: High school diploma or equivalent. Ability to work with schedules and in a group situation required; background in the security area helpful but not required. Good communication skills required.
 Minimum Starting Salary: \$5.15/hour
 Job Number: S071

*Position: Waitperson, SO15
 Department: Statler Inn
 Description: Under general supervision, serve meals to guests in the main dining room, according to established rules of etiquette, working in a formal setting. Set up and clean guest tables.
 Monday - Friday, 9:30 a.m. - 3:00 p.m.
 Requirements: High school diploma or equivalent. One year waiting experience strong interpersonal skills; standing and/or walking and heavy lifting (large trays of dishes and food).
 Minimum Starting Salary: \$4.22/hour
 Job Number: S073

Position: Technician, GR21 (Repost)
 Department: Division of Nutritional Sciences
 Description: Test and refine literature methods for various radioassays, and for various procedures involving minor surgery in rats. Responsible for day to day operation of laboratory, including ordering supplies, maintaining inventory, keeping isotope log. Provide back-up support for animal feeding and weighing. Monday - Friday, 20 hours per week, possibly up to 35 hours per week. Continuation contingent upon funding.
 Requirements: Bachelor's degree or equivalent in animal science, nutrition or physiology. Master's degree preferred. Two years work experience in radioassays, radio-immunoassays and small animal surgery, or similar experience acquired during completion of Master's thesis.
 Minimum Starting Salary: \$12,469/annual equivalent
 Job Number: T011

Position: Administrative Aide, GR20
 Department: Development/Olin Library
 Description: Provide support in area of public affairs for Library system to include analysis of gift data and tracking all library funds; all gift acknowledgements and maintenance of donor files; compose and type correspondence; maintain daily office routines including mail, appointments, phones, travel arrangement, etc.; extensive donor contact both written and oral. 20 - 25 hours per week - flexible.
 Requirements: Associate's degree or equivalent, business secretarial training desirable. Heavy typing. At least 2 years secretarial or administrative experience. Bookkeeping abilities. Familiarity with Xerox Memory type-writer. Ability to take initiative and execute independent judgment. Strong interpersonal, organizational and communication skills. Attention to detail.
 Minimum Starting Salary: \$11,739/annual equivalent
 Job Number: C065

Position: Word Processor Operator, GR18
 Department: Agricultural Economics
 Description: Inputting and formatting manuscripts, correspondence and course work and records on a Lanier Standalone Word Processor in a large academic department. Operator to provide support to staff if time permits. Monday - Friday, 10:00 - 4:30 p.m. (25 - 27.5 hours per week) 8.5 months; until 3/86 contingent on funding.
 Requirements: High School diploma or equivalent. Medium typing. Word Processing experience necessary. Accuracy in spelling and

grammar. Ability to work with teaching assistants and a large number of students relative to undergraduate courses.
 Minimum Starting Salary: \$10,500/annual equivalent
 Job Number: C064

Position: Museum Education Assistant, GR19 (Repost)
 Department: Herbert F. Johnson Museum of Art
 Description: Plan, teach and document workshops for the education department's ongoing elementary and secondary school programs under the supervision of the Coordinator of Education. Assist in conducting tours of the museum's permanent collection and temporary collections; assist Coordinator of Education in conducting public programs. Monday - Friday, 29 hours per week flexible hours until 6-30-85.
 Requirements: Bachelor's degree or equivalent in fine arts, art history, art education or museum studies required. Previous teaching experience with children necessary. Experience in museum work, curatorial, membership and/or education (in intern capacity or full time one year), or community service work with youth in a variety of capacities. Good organizational and writing skills necessary. Background in use of photographic equipment.
 Minimum Starting Salary: \$11,125/annual equivalent
 Job Number: C059

Position: Museum Education Research Assistant, GR19 (Repost)
 Department: Herbert F. Johnson Museum of Art
 Description: To research the museum's collection of American paintings, Asian and Medieval art for the planning and development of a tour program geared to high school, college and adult audiences. Create a format for collection and storage of information. Oversee assessment of these audiences' needs simultaneously to the development of tour program. Monday Friday, 20 hours per week (flexible) until 12-31-85.
 Requirements: Bachelor's degree or equivalent in art history. Master's degree or equivalent preferred. Strong art history background required. Previous museum experience helpful. Research experience necessary. Good organizational and communication skills essential. Excellent writing skills, and good interpersonal skills necessary. Computer and typing skills helpful. Ability to work independently and under pressure.
 Minimum Starting Salary: \$11,125/annual equivalent
 Job Number: C058

Position: Museum Education Research Assistant, GR19 (Repost)
 Department: Herbert F. Johnson Museum of Art
 Description: To research the museum's collection of American paintings, Asian and Medieval art for the planning and development of a tour program geared to high school, college and adult audiences. Create a format for collection and storage of information. Oversee assessment of these audiences' needs simultaneously to the development of tour program. Monday Friday, 20 hours per week (flexible) until 12-31-85.
 Requirements: Bachelor's degree or equivalent in art history. Master's degree or equivalent preferred. Strong art history background required. Previous museum experience helpful. Research experience necessary. Good organizational and communication skills essential. Excellent writing skills, and good interpersonal skills necessary. Computer and typing skills helpful. Ability to work independently and under pressure.
 Minimum Starting Salary: \$11,125/annual equivalent
 Job Number: C058

Position: Museum Education Research Assistant, GR19 (Repost)
 Department: Herbert F. Johnson Museum of Art
 Description: To research the museum's collection of American paintings, Asian and Medieval art for the planning and development of a tour program geared to high school, college and adult audiences. Create a format for collection and storage of information. Oversee assessment of these audiences' needs simultaneously to the development of tour program. Monday Friday, 20 hours per week (flexible) until 12-31-85.
 Requirements: Bachelor's degree or equivalent in art history. Master's degree or equivalent preferred. Strong art history background required. Previous museum experience helpful. Research experience necessary. Good organizational and communication skills essential. Excellent writing skills, and good interpersonal skills necessary. Computer and typing skills helpful. Ability to work independently and under pressure.
 Minimum Starting Salary: \$11,125/annual equivalent
 Job Number: C058

Temporary

TEMPORARY OPPORTUNITIES: Cornell University has an ongoing need for qualified individuals willing to work on a temporary basis. We frequently need individuals to work as word processor operators, secretaries, typists, receptionists, office assistants, account clerks and data entry clerks. Requirements for these positions range from medium to heavy typing, some office/secretarial experience and knowledge of word processing equipment. If you have an interest in working on a temporary basis in the clerical area, please contact Tambi Benzon at 2565226 ext. 266; in the technical area, please contact Bill Webster at 256-5226 ext. 268; in the general service area, please contact Sharon Warunek at 273-1179.

*Position: Technician, T-3
 Department: Physiology
 Description: Carry out all functions associated with a study of transfer of inorganic ions and molecules across mammary glands of goats. Collect and analyze samples, calculate and record data, laboratory maintenance and ordering supplies. Full time, regular until 8/30/85.
 Requirements: Bachelor's degree or equivalent in animal science or biological sciences. Experience in chemical analysis desirable. Ability to use spectrophotometer and perform data calculations preferred. Familiarity with gamma counting, liquid scintillation counter, microcomputers and calculators helpful.
 Minimum Starting Salary: \$5.16/hour
 Job Number: T076

*Position: Office Assistant
 Department: Summer Session/Extramural
 Description: Maintain student records using IBM PC, process applications, maintain files, handle phone inquiries. General office duties including typing. Ability to work under pressure. Flexible hours. Monday - Friday, 8:30 a.m. - 4:00

p.m.
 Requirements: High school diploma or equivalent. Experience with IBM PC and PCXT required. Knowledge of dBase II preferred. Attention to details and keypunch accuracy. Excellent telephone communication skills.
 Minimum Starting Salary: \$4.50/hour
 Job Number: C073

Position: Animal Health Technician, GR18
 Department: Veterinary Medical Teaching Hospital
 Description: Assist in operation of large and small animal Anesthesia program, including: care of equipment, records, monitor instructions to students, order and stock anesthesia rooms, participate in teaching labs. Monitor animals under anaesthesia for treatments, surgery and radiology. Six month position.
 Requirements: Associate's degree or equivalent, licenses animal health technician, required by NYS law. One year experience with animals required, basic knowledge of anesthesia desirable.

Minimum Starting Salary: \$10,500/annual equivalent
 Job Number: T065

Academic

Please contact department directly.
 *Position: Faculty, Tenure or Tenure Track
 Department: Geological Sciences
 Job Number: A071

Position: Senior Research Associate II, CA-08
 Department: Agronomy
 Job Number: A061

Position: Postdoctoral Associate - Biochemistry
 Department: Division of Nutritional Sciences
 Please send resume to: Dr. O. H. Zilversmit, Division of Nutritional Sciences, 204 Savage Hall
 Job Number: A062

PEOPLE

Du Pont Scientist Takes a New Role Here, Seeks Cooperative Ventures

By JOE ELLER

For most people, a proper retirement would include a slackened pace ... fewer activities ... less responsibility.

But not for Ralph W. F. Hardy, former director of life sciences research at Du Pont. He has taken on a new role helping people in academia, government, and industry achieve better cooperation among themselves.



HARDY

Hardy will spend much of his time at Cornell University giving seminars and workshops and teaching a course in nitrogen fixation. A leading authority in this field, he is a visiting professor of life sciences in the section of plant biology in the Division of Biological Sciences, a joint unit of the College of Arts and Sciences and the New York State College of Agriculture and Life Sciences, both at Cornell.

At age 50, Hardy exudes considerable mental and physical energy. Born and raised on a farm in Canada, he never seems to run out of zest for a new project. Retirement to him means simply a change of direction — a new place to focus his efforts. He has never been content to do one

thing well, only to do several things well, all at the same time.
 "After Du Pont, I felt I wanted one foot in academia and one foot in enterprise," Hardy said in a recent interview on campus. Accordingly, he divides his time weekly among Ithaca, Washington, D.C., and Cambridge, Mass.

In Washington, Hardy serves on the executive committee of the National Research Council's Board of Agriculture and is a member of the NRC's Commission of Life Sciences.

In Cambridge, Hardy is president and chief operating officer of BioTechnica International, a biotechnology firm engaged in researching, developing, and marketing products derived from genetically engineered organisms. BioTechnica's major activity is aimed at developing the next-generation microbial systems for the manufacture of products for the food, beverage, chemical, and pharmaceutical industries.

Considered by some as one of the nation's top achievers in the double-role of basic scientist and administrator of a research operation, Hardy is no stranger to academia. After earning the B.S.A. degree (1956) at the University of Toronto and the M.S. (1958) and Ph.D. (1960) degrees at the University of Wisconsin, he joined the University of Guelph (Ontario) as an assistant professor in the chemistry department.

In April 1963, Hardy joined Du Pont and was there 20 years.

Novak and Gowin Produce New Book

Becoming educated is a liberating act. Failures in educating, on the other hand, are sorrowfully oppressive. While the process of educating occurs every day throughout the U.S., much of it involves rote, arbitrary, and verbatim instruction so that there are few intrinsic awards for students.

To help parents, students, and teachers glean a keener insight into the process of learning, two professors of education at Cornell University have written the book

Learning How To Learn. Joseph D. Novak and D. Bob Gowin are both in the State College of Agriculture and Life Sciences.

These educators examine the process between students and teachers as well as the structure of the knowledge that shapes curricula and the education setting. Novak and Gowin provide practical "how to do it" information and strategies to help students learn how to learn.

Bruns Named Associate Biotechnology Director

Peter J. Bruns, professor of genetics and chairman of the section of genetics and development, has been appointed associate director of the Biotechnology Program.

The Cornell Biotechnology Program is comprised of the New York State Center for Advanced Technology for Biotechnology, supported by New York State, and the Cornell Biotechnology Institute, financed, in part, by several private

corporations. University researchers work side by side with corporate scientists in the Biotechnology Institute.

A member of the faculty in the New York State College of Agriculture and Life Sciences at Cornell since 1969, Bruns focuses his research on the genetic and reproductive functions of the single-celled animals known as Tetrahymena. Much of what is learned about Tetrahymena can be applied to the genetics of other animals.

Brief Reports

Risley Plans Open Readings of 'Lysistrata'

Some 2,500 years ago, Aristophanes, a comic dramatist of ancient Greece, wrote a play that was in reality a plea for pacifism. He called it "Lysistrata" and it centered on the rivalry between the art-loving, intelligentsia of Athens and the warriors of Sparta.

In 1964, Douglass Parker translated his play into American slang. It concerns the warriors draining the treasuries and angry women going on strike and refusing sex until the war was over. In Parker's version, the Athenians became New Yorkers while the Spartans took on characteristics of Appalachian natives.

Now, 20 years after that translation hit the stands, Cornell's Risley Theatre is assuring that "Lysistrata" continues in perpetuity by holding open readings of Parker's interpretation at 8 p.m. on Friday, Feb. 22, and Saturday, Feb. 23, at the theatre in Risley Residential College.

Scripts and food will be provided to all who want to "take a stab at" interpreting Parker's interpretation, according to event organizer Bill Altman.

For more information phone 256-0640.

Times Editor to Discuss 'Deciding What's News'

Adam Clymer, assistant to the editor of the New York Times, will give a public lecture here on "Deciding What's News: The Difference Between News and Social Science."

Free and open to the public, the lecture is at 4 p.m. Monday, March 4, in 202 Uris Hall. It is the third in a five-part series sponsored by the Cornell Institute for Social and Economic Research, the department of communication arts, and the department of government.

During his journalistic career, Clymer has been a foreign correspondent in the Soviet Union and in India, and has covered the U.S. Supreme Court, Congress, and the White House. Before joining the New York Times, he was a reporter with the Baltimore Sun and the New York Daily News.

Science Historian Heilbron to Lecture

Science historian John Lewis Heilbron will give a series of lectures here on 20th century physics starting March 4.

Heilbron, who will be on campus in his capacity as an Andrew D. White Professor-at-Large, is professor and director of the Office for History of Science and Technology at the University of California at Berkeley. He will give three public lectures, all starting at 4:30 p.m.

★ Monday, March 4, in Hollis E. Cornell Auditorium of Goldwin Smith Hall — "The Self-Image of Physics at the Turn of the Century;"

★ Thursday, March 7, in Lecture Room D of Goldwin Smith Hall — "The Copenhagen Spirit and Its Earliest Missionaries;" and

★ Wednesday, March 13, in Hollis E. Cornell Auditorium — "The Bevatron and the Cold War."

He will address the weekly physics colloquium at 4:30 p.m. Monday, March 11, on the topic "The Dilemmas of an Upright Man: Max Planck as Spokesman for German Science." The physics colloquia, in 700 Clark Hall, are open to anyone.

During his stay on campus through March 17, Heilbron will meet formally and informally with students and faculty and take part in several seminars. He will hold office hours at the department of history in McGraw Hall; appointments may be made by calling 256-4367.

Author or coauthor of 11 books and numerous articles, Heilbron has achieved international distinction as a gifted his-

torian of science. He has been a major organizer of archival projects on the history of physics and, since 1980, has been editor of Historical Studies in the Physical Sciences. He served a two-year term as a member of the Panel on History and Philosophy of Science for the National Science Foundation. He is currently involved in a major study of the Lawrence Berkeley Laboratory, formerly known as Berkeley's Radiation Laboratory.

Common Learning Course 'Rhythms' Slates Lecture

Two February lectures are scheduled as part of the new Common Learning Course in Music, "Rhythm."

This afternoon, Timothy de Voogd will speak about levels of rhythms in singing behavior of canaries; on Thursday, Feb. 28, Leland Smith will discuss sounds and rhythms in computer music. Both lectures are scheduled for 4:30 to 5:45 p.m. in the auditorium of Barnes Hall.

De Voogd is associate professor of psychology at Cornell. Smith, professor of music at Stanford University, studied with Darius Milhaud, Roger Sessions and Olivier Messiaen. Before joining the Stanford faculty in 1958, he taught at the University of Chicago. Among his compositions are numerous chamber music works, an opera entitled "Santa Claus" (1955), and "Machines of loving grace," written in 1970 for computer, bassoon and narrator.

The Common Learning courses are interdisciplinary; faculty teams plan new courses for juniors and seniors from all of the colleges in the university. Music 312, under the direction of Prof. William Austin, is exploring the significance of rhythms in biology, psychology, anthropology, music and other studies. It is being taught by professors from the Arts and Agriculture Colleges, with guest speakers from the College of Engineering and outside.

Law Students to Help With Tax Returns

Free tax assistance is available to qualified taxpayers through VITA, the Volunteer Income Tax Assistance Program, sponsored by the Cornell Law Student Association. VITA volunteers will help low income, elderly, and handicapped taxpayers with their returns at the Tompkins County Library every Tuesday and Thursday from 7 p.m. to 9 p.m. and every Saturday from 10 a.m. to 2 p.m. from now to April 13.

Volunteers will help complete the taxpayer's entire form or simply answer specific questions. Taxpayers should bring the tax package they received in the mail, wage and earning statements, last year's tax form, if available, and any other information concerning income and expenses.

New Accounting System Demonstrated in March

The in-transit feature of Cornell's accounting system, as well as the Inquiry Information and Reporting System (IRIS), will be demonstrated from 1:30 to 3 p.m. Monday, March 4, and from 2 to 3:30 p.m. Wednesday, March 6, in G-94 Uris.

According to the office of the university controller, the new in-transit feature will enable users to enter "soft" commitments on accounts, while IRIS will allow users to make ad hoc inquiries and reports on the accounting system.

All system users are invited to the demonstrations.

Mitofsky Talk on Polling Rescheduled for March 1

Warren J. Mitofsky will discuss modern television news polls as a news-gathering technique at 4 p.m. Friday, March 1, in room 117 of Ives Hall.

The second in a five-part series on polling, the public lecture had been originally announced for Wednesday, Feb. 27. It is sponsored by the Cornell Institute for Social and Economic Research, the department of communication arts, and the department of government.

Mitofsky is director of the election and survey unit of CBS News and is one of two executive producers responsible for election night coverage. In particular, he is responsible for election night predictions based on polling.

Annual Playwriting Competition Begins

One-act plays with "an American theme" are now being accepted as submissions for the annual Forbes Heermans/George A. McCalmon Playwriting Competition sponsored by the department of theatre arts.

Contestants, who must be registered students at Cornell for the spring 1985 term, have an added incentive to submit their work this year. In addition to the cash prizes — \$300 for the first place winner, and \$150 for second place — the winning play will be performed as a staged reading in the Theatre Cornell New Works Script-in-Hand Series.

This marks the first time the winning play has been performed. An as yet unnamed professional will stage the work.

Deadline for submissions is Friday, March 8; results will be released Friday, March 29.

Established by bequest of Forbes Heermans (class of 1878) in memory of George A. McCalmon, professor of speech and drama, the competition is designed to develop new authors through promotion of new works for the stage.

For more information and a complete list of rules and regulations, contact the department at 104 Lincoln Hall, 256-4060.



SAGE CHAPEL

Author to Give Talk On 'Changes, Challenges'

Blu Greenberg will speak at Sage Chapel on Sunday, February 24, 1985, at 11 a.m. Her sermon topic will be "The Changes and Challenges of Our Times."

Greenberg is president of Jewish Book Council in New York City. From 1970-1977, she was an instructor in the department of religious studies at the College of Mount Saint Vincent.

Greenberg has had published "How to Run a Traditional Jewish Household," Simon and Schuster, New York, June 1983, and "On Women and Judaism: A View From Tradition," Jewish Publication Society, Philadelphia, 1982. She is a contributing editor to Sh'ma and on the Editorial Board of Hadassah Magazine.

Greenberg received her B.A. from Brooklyn College, a B.R.E. (bachelor of religious education) from Yeshiva University Teachers Institute, an M.A. in clinical psychology from City University, and an M.S. in Jewish history from Yeshiva University Revel Graduate School of Jewish Studies.

Music for the service will be provided by the Sage Chapel Choir under the direction of Stephen May, who is acting Sage Chapel organist and choirmaster.

Field Ornithology Course Scheduled

The Laboratory of Ornithology will offer an eight-week, non-credit course in spring field ornithology, beginning March 20.

Taught by Stephen W. Kress, laboratory associate at the Laboratory of Ornithology and biologist for the National Audubon Society, the course is intended for those with a beginning interest in birds. Identification and behavior of the spring birds that migrate through the Ithaca area will be emphasized.

The course, which continues through May 19, includes Saturday field trips to nearby bird watching habitats such as Montezuma National Wildlife Refuge and the shores of Lake Ontario. There is also an optional weekend trip to the salt marsh habitat of Brigantine National Wildlife Refuge in southern New Jersey.

During Wednesday evening meetings at Cornell's Laboratory of Ornithology, participants will view slides and listen to tape recordings of local birds that might be seen on the weekend field trips. Wednesday topics also include lectures on nesting behavior, migration, and bird song.

Enrollment fee for the course, including field trips, is \$80. The fee for participating in lectures only is \$40. Laboratory members receive a 10 percent discount. Registration is at the Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca. For further information, call 256-5056.