



New Quark Is Found 'Bottom' Is Newest Upsilon

Initial experiments at Cornell's newly completed electron-positron accelerator have verified the existence of a postulated third subatomic particle in the upsilon family of particles. Its verification gives additional support to current theories concerning quarks, thought to be the building blocks of matter, according to Karl Berkelman, professor of physics at Cornell.

He reported Monday on the results of work done by two groups of physicists from eight universities at Cornell's new facility. He discussed the experiments before the American Physical Society which is conducting meetings this week in Chicago.

While verification of the specific particle "upsilon double prime" has the team members excited, they are even more pleased with the prospects of greater future discoveries as a result of the highly successful operation of the new facility, Berkelman said.

The first time the new machine was placed in operation in early October it produced not only the upsilon double prime but also upsilon and upsilonprime, particles seen before but never with the clarity that was achieved with the Cornell machine, he said.

The particles were produced by

colliding a beam of electrons against a beam of positrons (electrons with positive charges) as they raced in opposite directions around what is called an electron storage ring. Collisions were studied at energies ranging from 9.4 to 10.4 billion electron volts.

The machine, constructed with funds from the National Science Foundation, is known as CESR (pronounced Caesar), an acronym for Cornell Electron Storage Ring. It is the largest of its kind operating in the United States and is capable of achieving collision energies of up to 16 billion electron volts, or 16 Gev as the physicists term it.

The production of the three members of the upsilon family enabled scientists working at Cornell to make for the first time precise measurements of the masses of these particles. Berkelman said the ease with which these measurements were made gives these scientists confidence that accurate measurements of many properties of the upsilon family will be made in the coming years.

Upsilon particles are thought to be combinations of the newest and heaviest quark, the "bottom quark," and its counterpart the "anti bottom quark." To date studies have been mostly on the lighter

quarks known as "up," "down," "strange" and "charmed."

Physicists discuss the possibility of a sixth quark called "top," because its existence would give symmetry to current theories, even though there is no direct evidence yet for its existence.

The experimental studies of the upsilon family at Cornell are being carried out by two experimental groups. One, named CLEO, is a collaboration of university scientists from Cornell, Harvard, Syracuse, Rochester, Rutgers, and Vanderbilt. The other consists of scientists from Columbia University and the State University of New York at Stony Brook. The groups made their measurements independently, and agree on the results, Berkelman said.

Despite the great scientific potential of CESR, its cost of \$13 million was relatively modest for a high energy storage ring machine, according to Boyce D. McDaniel, director of the Laboratory of Nuclear Studies at Cornell. Its low cost and short construction period (two years) was partially due to extensive use made of a previously existing electron synchrotron at Cornell, he said.

Nader to Give Lecture Here Symposium on Consumer Activism

Consumer advocate Ralph Nader will give a lecture at 8 p.m. Saturday, Feb. 2, in Bailey Hall.

Nader's lecture will conclude a day-long symposium on consumer activism. His talk will focus on the current state of the consumer movement as well as on predictions as to where the movement is headed in the next decade, according to Gail Wechsler, member of the Cornell Public Interest Research Group, one of the sponsors of the symposium.

The symposium will begin at 10

a.m. in G-94 Uris Hall with an opening address by Cornell PIRG.

Times and topics of the panel discussions are:

-10:45 a.m.-noon: "Environmental Advocacy: For Our World, Ourselves and the Future;"

-1-2:15 p.m.: "Corporate Responsibility Through Local, State and Federal Activity;"

-2:30-3:45 p.m.: "Energy Alternatives and Some Mandates for Consumers," and

-4-5:15 p.m.: "Local Action: You Can Make a Change."

Tickets for Nader's lecture are on sale at Willard Straight Hall and at Egbert Union, Ithaca College. Cost is \$2. Ticket proceeds will go toward funding of the Center for Study of Responsive Law.

The symposium is being sponsored by PIRG, the University Unions Program Board, the Department of Consumer Economics and Housing and the Department of Natural Resources.

In recent years Nader has become a leading spokesperson in favor of standardized testing reform.

Cornell Joins Library Consortium Move to Enhance Research Service

Cornell has joined a nationwide consortium of some of the largest private and public research libraries in the country.

University Librarian Louis Martin announced this week that Cornell has joined the Research Libraries Group, Inc., whose present membership consists of the New York Public Library, and the following universities: Yale, Columbia, Stanford, Pennsylvania, Princeton, Michigan, Dartmouth, Iowa,

Brigham Young, Colorado State, Rutgers, Brown, The Johns Hopkins and Cornell. The University of California at Berkeley and at Davis are affiliate members.

Martin said, "Cornell's membership in the RLG will enhance immensely in future years the service the Cornell Libraries may render to the research interests of our faculty and students and to the world of scholarship in general. The emphasis of the RLG is on finding

solutions to the long-range problems of large research libraries. It will not act solely as a 'bibliographic utility,' supplying cataloging and reference information in machine-readable form. The shared development and use of the members' diverse and specialized collections are particularly important during this period of soaring publication costs."

Martin said that the most immediate benefit to the libraries will

be the use of the Research Libraries Information Network, a computerized data base of cataloging information supplied by member libraries and the Library of Congress.

In addition, Martin said that the libraries hope to have a number of terminals connected to RLIN in various public service facilities throughout the library system. These connections to RLIN will be supplemented by improved in-

terlibrary loan access to the holdings of the member libraries. Of great importance, he said, is that as a member of the RLG Cornell faculty and students will have interlibrary loan access to the massive research collections of the New York Public Library.

In addition, Cornell will participate in the major programs of the Research Libraries Group, which include sharing of resources more

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Work-Study Money Available for Grads

Approximately \$1.5 million in federal Work-Study Program money is available to eligible University graduate students for partially funded assistantships this academic year, according to Alison Casarett, vice provost and dean of the Graduate School.

The availability of \$1.5 million from Work-Study puts financial aid money into the colleges and departments, thus releasing departmental money for other purposes, including support of other graduate students, Casarett explained.

"We see this as students-helping-students," she said. "The more graduate students who apply and are eligible for Work-Study money, the more departmental dollars are available for others."

"Teaching assistants, research assistants and graduate research assistants may be eligible for this Work-Study money, and we urge them to apply through the deans' offices in the various schools and colleges," she said. Casarett is also anxious for department heads and other faculty to encourage their graduate students to apply.

Applications for Work-Study money for graduate students are being initiated through colleges and departments because this is more manageable than going to the Office of Financial Aid, which is primarily involved with undergraduates, she said.

Last year, Cornell received some \$2 million in Work-Study money from the federal program. For 1979-80, Cornell received \$3.5 million. The increase occurred because in its application to the Office of Education, "Cornell documented the financial need of graduate students," Casarett said.

These additional funds have been targeted for use by graduate students. The current undergraduate program is being maintained as in the past, with all eligible applicants given the opportunity to participate.



Women's basketball coach Donna Turnbaugh has some words for her Cornell team, which takes on Pennsylvania at 7:30 p.m. Friday in Barton Hall and Utica at 6 p.m. Saturday in Helen Newman. The Friday game is the second half of a doubleheader that opens at 5:15 p.m. with the men's junior varsity playing Tompkins-Cortland Community College. Among the women listening to Coach Turnbaugh are Jeanette Ryan (20), a sophomore from Armonk, N.Y., and Kathy Stratton (10), a freshman from Chappaqua, N.Y.

Architects Cited for Historic Work Area Preservation Efforts Noted

The trustees of the Regional Conference of Historical Agencies have cited faculty and students at Cornell for "diligent and creative work" in preserving significant older buildings in the villages of Interlaken, Lodi, Newark Valley, Ovid and Spencer.

A letter sent to the College of Architecture, Art and Planning states:

"The conference feels that the students were of exemplary quality: intelligent, knowledgeable, courteous, clever, and industrious."

"Tania Werbizky, lecturer, Cornell University Preservation Planning Workshop, provided an excellent framework and example for her students: without her the project would not have been as rich as it was."

The RCHA, which has offices in Manlius, covers 23 counties throughout New York State and is dedicated to assisting the various agencies and institutions in these counties in their historic preservation activities, part of a growing interest in the country in grass-roots history and building conservation.

Responding to this interest, the College of Architecture instituted

the preservation planning workshop four years ago. Nearly 100 undergraduate and graduate students from not only the College of Architecture but many of the other nine colleges and schools on the Cornell campus have taken part in the workshop.

The students have worked directly with numerous communities in New York in identifying and

documenting local architecture as a first step in restoring, rehabilitating and preserving local history.

The RCHA letter lists projects undertaken during the 1978-79 academic year. Currently some 30 students are working on projects in Geneva, Waterloo, Berkshire and Cayuga. The workshop has assisted 24 communities over the past four years.

Kermit C. Parsons, dean of the college, said the RCHA's letter "not only honors the students and faculty, it also gives public recognition to one of the many ways Cornell fulfills its obligation as the state's Land Grant University."

Art Historians at Cornell Are Prolific Publishers

Book displays at the Campus Store and in the Fine Arts Library in Sibley Hall call attention to a remarkable event in the academic world of research: Eight new books are shown, all issued in 1979, all by Cornell professors, all in the area of art history.

"Such a concentration may well merit the Guinness Book of Records as the most in any year in any university in any subject area—at least in proportion to the relatively small number of professors in the field," said Robert G. Calkins, professor and chairman of art history and one of the authors.

The books are widely distributed

among the divisions of art history: classical antiquity, the Middle Ages, the Renaissance, the Baroque, a historic technique, theoretical problems, and two on America mainly in the 19th century.

The books and their authors: —"Lydian Houses and Architectural Terra Cottas" by Andrew Ramage, associate professor of art history;

—"Monuments of Medieval Art" by Calkins;

—"Italian Art 1400-1500" by Creighton Gilbert, professor of art history;

—"Space into Light: the Churches of Balthasar Newmann"

by Christian Otto, associate professor of architecture;

—"Cities of the American West" by John Reys, professor of city and regional planning;

—"Wayne County: the Aesthetic Heritage of a Rural Area" by the late Stephen Jacobs, professor of architecture, who died in 1978;

—"A Little Writing Book" by Peter Kahn, professor of fine arts;

The following job openings are new this week. For information on vacant positions listed in previous issues of the Chronicle, contact Personnel Staffing Services, 440 Day Hall. Cornell is an affirmative action employer.

Clerical

Admin Aide, GR21 (Learning Skills, COSEP)

Admin Aide, GR21 (Univ. Health Serv.)

Secretary, GR19 (NYSSILR)

Office Asst., GR19 (Extramural)

Secretary, GR19 (Prevent. Med.)

Admin. Aide, GR19 (U. Unions)

Secretary, GR18 (C.A.U. Cornell Adult Univ.)

Office Asst., GR18 (A&S Dean's Office)

Jobs

Lib. Aide, GR18 (Univ. Libs., Law Lib.)

Secretary, GR17 (Classics)

Office Asst., GR17 (Public Affairs Records)

Secretary, GR17 (DCS-Radiology)

Secretary, GR16 (International Student Office)

Lib. Aide, GR15 (U. Libs., Serials/Olin) (2)

Office Asst., GR15 (Public Affairs Records)

Records Clerk II, NP-6 (Media Services)

Service & Maintenance

Cook, GR21 (Dining Svcs.)

Cook, GR18 (Dining Svcs.)

Material Handler, GR18 (Dining Svcs.)

Food Service Worker, GR17 (Dining Svcs.)

Dishmachine Operator, GR16 (Dining Svcs.)

Custodian, GR16 (Dining Svcs.)

Cashier, GR15 (Dining Svcs.)

Food Service Worker, GR14 (Dining Svcs.)

Cook, GR18 (Res. Life) (2)

Custodian, GR16 (Res. Life)

Technical

Res. Supp. Spec. III, CPO5 (Computer Graphics)

Res. Supp. Aide, CPO2 (Chemistry)

Tech., GR24 (Botany, Gen. & Dev.)

Lab. Coord., GR22 (Chem. Eng.)

Lab. Tech., NP-11 (Diag. Lab.)

Administrative/Professional

Dir. of Lab. Operations, CPO8 (Lab. of Ornith.)

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Black History Month Will Be Marked Here

In commemoration of National Black History Month in February, a number of programs have been scheduled at the University.

"Exploring Cultural Diversity," is the title of Cornell's February series of events.

"The Cornell and Ithaca communities have a number of superb programs planned aimed at providing an opportunity for members of both communities to learn about and appreciate the diversity of cultures within the Ithaca area," said LeNorman Strong, director of Cornell's Noyes Student Center.

Strong, who is coordinating a calendar of events for the month, requests that any group sponsoring a program call him at 256-6380 before Wednesday, Jan. 30, so all programs will be included in the calendar.

Some major programs scheduled at Cornell include: The Festival of Black Gospel on Friday and Saturday, Feb. 8-9, sponsored by CURW, and Mardi Gras on Saturday, Feb. 16, North Campus Union, sponsored by the University Unions Program Board.

B.F. Maiz, poet and humanist will present a number of poetry recitals and workshops during the week of Feb. 24.

On Saturday, Feb. 23, the Department of University Unions and the Office of the Dean of Students will sponsor a Multicultural Communications Workshop at Camp Arnot.

The workshop is designed to help participants develop their own personal consciousness in regard to race and racism. Participants will be provided with opportunities to recognize the many ways in which racist ideas and actions become the basis for individual ideas, fears, attitudes and behaviors, Strong said.

Transportation and meals will be provided and workshop participants should meet in the lobby of Willard Straight Hall at 8:30 a.m. To register, call 256-4131, before Monday, Feb. 18.

Other events will feature films, coffeehouses, exhibits and communication discussion sessions.

All programs are open to the public.

NEH Plans Seminar Here

Cornell has been selected by the National Endowment for the Humanities as one of the institutions to offer an eight-week seminar this summer in NEH's program of Summer Seminars for College Teachers.

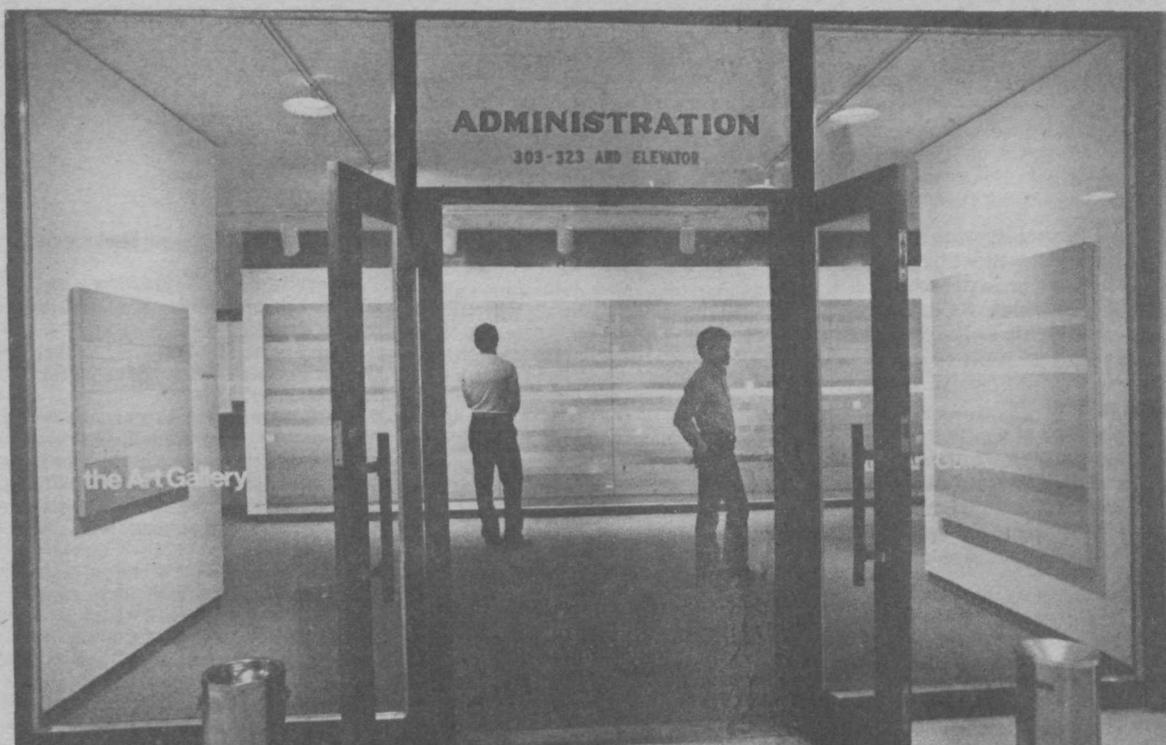
"Russian Modernism" will be the seminar topic offered by Patricia Carden, professor of Russian literature at Cornell. Twelve college teachers will be selected to attend.

Carden's seminar will deal with the principal works of Russian modernist literature in the context of the other arts. The emphasis will be on theater as the means of developing a synthesis of all the arts.

Some 120 seminars are scheduled to be offered throughout the country this summer in all disciplines of the humanities and humanistic social sciences.

The purpose of the NEH program is to provide opportunities for faculty at undergraduate and two-year colleges to work with distinguished scholars in their fields at institutions with library collections suitable for advanced research.

Participants will receive a stipend of \$2,500 to cover travel expenses to and from the seminars, books and other research expenses, and living expenses.



B&PA Opens an Art Gallery Believed First of Its Kind

The Graduate School of Business and Public Administration has opened what is believed to be the first art gallery in a business school in the country where the general public may purchase paintings.

The gallery will hold a series of one-man shows throughout the year, according to Acting Dean David A. Thomas. Funded by Interpace Corp., the gallery's first show features Michael Boyd, whose works are frequently exhibited at the Andre Jarre Gallery in New York City and are part of the art collections of General Electric, Atlantic Richfield and Chase Manhattan Bank.

Why an art gallery in a business school? Acting Dean Thomas said "The gallery is a statement that

insists that art and business don't have to be separate, that art can be part of our working lives. And for good reason. Visual artists determine, to a large extent, not only what we see in the world but how we see it. They sharpen our sense of form and of color. They raise those moral and ethical issues which no society and, certainly no business person, can ignore. An art gallery is, then, a way of enriching the lives of students, faculty, and staff. Or, more simply, it makes this place a more pleasant and rewarding place to spend our days."

Although art galleries customarily take a 50 to 60 percent commission for the sale of works, this art gallery will take nothing. "We simply want art to be a part of our

students' lives, Thomas noted. "That is profit enough."

After Michael Boyd's show, which will run through February, the gallery will feature the well-known New York artist Rosemary Mayer through the spring and then open the summer with works by Peter Kahn, a professor of art at Cornell.

Thomas announced the membership of a three-man advisory committee to the gallery: Robert Calkins, professor and chairman of history of art; Robert C. Hobbs, curator of modern art at the Herbert F. Johnson Museum of Art and assistant professor of art history, and Kahn.

Women's Studies Sets Seminars Friday Series Is Open to All

The Friday Seminars series of the Women's Studies Program is scheduled for this term to run between Feb. 1 and April 25.

These sessions are all held in Room 105 of the Industrial and Labor Relations Conference Center

on campus and are open to anyone who wishes to attend. The seminars are non-credit and run from 12:15 to 1:15 p.m. each day. Coffee is available and participants may bring a bag lunch if they wish.

Most of the sessions are taped and

available in the Uris Library Listening Room about a week after they are presented.

The schedule for this term: Friday, Feb. 1, "Affirmative Action at Universities: Equality or Equity?" Mary Lepper, associate

professor, Public Administration, Maxwell School, Syracuse University.

Friday, Feb. 8, "Breaking the Bonds of Food Bingeing," Rosemary Pitkin and Roxanne Thompson, Finger Lakes Center, Lansing.

Friday, Feb. 15, "The Status of Women in India and Development Theories," Maithreyi Krishna Raj, Fulbright Scholar from Bombay visiting at Syracuse University and SUNY/Oswego.

Friday, Feb. 22, "Sex-Fair Teaching for Pre-Schoolers," Ann Halpern, lecturer, Early Childhood Education, Human Development & Family Studies, Human Ecology, Cornell.

Friday, Feb. 29, "The Disadvantaged Woman," Carolyn Whitlow, senior extension associate, Industrial and Labor Relations, Cornell.

Friday, March 7, "Child Care at Cornell," Carol Day Young, graduate assistant for student families, Office of the Dean of Students, Cornell.

Friday, March 28, "Sex Roles in

Jordan," Nimra Tannous Es-Said, assistant executive secretary, Supreme Ministerial Committee for Relief of Displaced Persons, Amman and Ph.D. candidate. Sociology, Cornell.

Friday, April 4, "Management Careers for Women," G.G. Michelson, senior vice president for Labor Relations, Macy's, New York.

Friday, April 11, "Women in Domestic Service in 19th Century America," Faye Dudden, Ph.D. candidate, Department of History, University of Rochester.

Friday, April 18, "The Uselessness of Patriarchy," Joan Smith, associate professor, Sociology and Director, Women's Studies, SUNY/Binghamton.

Friday, April 25, "Stress Responses of Men and Women in Industrial Settings," Candra Kirmeyer, assistant professor, Industrial and Labor Relations, Cornell.

DEC Gift Benefits Submicron Unit

The Digital Equipment Corp. of Maynard, Mass., has contributed \$100,000 in digital computer equipment to the National Research and Resource Facility for Submicron Structures here.

The gift includes a PDP-11/34 computer and related equipment, as well as peripheral equipment for an existing PDP-11/60 computer at Cornell.

"This equipment will provide valuable computing power to submicron facility researchers," according to Daniel W. Hammerstrom, assistant professor of electrical engineering at Cornell.

It will be used for experimental

control of the Scanning Transmission Electron Microscope (STEM) and for data analysis, as well as for support of the facility's Computer-Aided-Design program and distributed processing research.

The systems will also be available for undergraduate and graduate student projects related to the submicron facility's research program.

Richard H. Eckhouse Jr., manager of university relations for DEC, said the corporation's gift is partly in recognition of the need for more industry-university interaction.

"It is the intent of both DEC and

submicron facility leadership to encourage interaction between their personnel, both formally and informally," Eckhouse said.

In 1977, the National Science Foundation provided a \$5 million, five-year grant to Cornell for operation of the submicron facility, the first of its kind in the United States.

The facility, to be located in Phillips Hall, is intended to promote research on the fabrication of electronic and other devices with submicron dimensions (a micron is one millionth of a meter), and to educate engineers and scientists from throughout the country in submicron technology.

Calendar Of Events

All items for publication in the Calendar section must be submitted by mail or in person to Fran Apgar, Office of Central Reservations, 532 Willard Straight Hall, at least 10 (ten) days prior to publication. 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.). *—Admission Charged.

Films

Except where noted films are under sponsorship of Cornell Cinema.

Thursday

Jan. 20, 8 p.m. Uris Hall Auditorium. "The Precipice" directed by Yasuzo Masumura. Co-sponsored by China-Japan Program and Japan Foundation. "Japanese Literary Works in Film." Free.

Friday

Jan. 25, 7:30 p.m. Uris Hall Auditorium. "Fires on the Plain" (Ichikawa, Japan, 1959); short: "Moons Pool" (Nelson, U.S., 1974). Pentangle II Free Film Series.

Jan. 25, 9:45 p.m. *Uris Hall Auditorium. "Cries and Whispers."

Friday & Saturday

Jan. 25 & 26, 7 & 9:45 p.m. *Statler Auditorium. "The Sting."

Jan. 25 & 26, 11:45 p.m. *Uris Hall Auditorium. "Reefer Madness."

Saturday

Jan. 26, 7:30 & 9:45 p.m. *Uris Hall Auditorium. "Cries and Whispers."

Sunday

Jan. 27, 8 p.m. *Uris Hall Auditorium. "The Mother and the Whore."

Monday

Jan. 28, 9 p.m. *Uris Hall Auditorium. "Summer Interlude." Film Club members only.

Tuesday

Jan. 29, 8 p.m. *Uris Hall Auditorium. "Every Man for Himself and God Against All: Kaspar Hauser."

Wednesday

Jan. 30, 8 p.m. *Uris Hall Auditorium. "Weekend."

Thursday

Jan. 31, 8 p.m. *Uris Hall Auditorium. "The Buddy Holly Story." Co-sponsored by the Government Department.

Friday

Feb. 1, 7:30 p.m. Uris Hall Auditorium. "Warning Shadows" (Robison, Germany, 1922); short: "Un Chien Andalou" (Bunuel, France, 1929). Pentangle II Free Film Series.

Feb. 1, 8 p.m. *Statler Auditorium. "My Fair Lady."

Feb. 1, 9:45 p.m. *Uris Hall Auditorium. "Which Way is Up?"

Feb. 1, 11:45 p.m. *Uris Hall Auditorium. "Rocky, Bullwinkle, & Co."

Saturday

Feb. 2, 7:30 & 9:30 p.m. *Uris Hall Auditorium. "Which Way is Up?"

Feb. 2, 8 p.m. *Statler Auditorium. "My Fair Lady."

Feb. 2, 11:30 p.m. *Uris Hall Auditorium. "Rocky, Bullwinkle, & Co."

Sunday

Feb. 3, 2 p.m. *Uris Hall Auditorium. "Pippi Longstocking." Co-sponsored by Ithaca Youth Bureau.

Feb. 3, 8 p.m. *Uris Hall Auditorium. "400 Blows." Preceded by Image Forum slide show by George Atkins.

Exhibits

Herbert F. Johnson Museum. "Don La Viere Turner: Metalpoint Paintings," through March 2; "Selections from the Permanent Collections." Museum hours: Tuesday through Sunday, 10 a.m.-5 p.m. Tours may be arranged by calling the Education Department two weeks in advance (256-6464).

Sibley Dome Gallery. Group show,

Graduate Painting, Sculpture, Printmaking and Photography, through Jan. 31.

Upstairs Gallery, DeWitt Office Complex, 215 N. Cayuga St., a one-man show by artist John Hartell, professor emeritus of architecture, art and planning. Oils, watercolors and line drawings, in all more than 40 works, none of which have been previously exhibited and all works of 1978 and 1979. Hartell's works have been exhibited in many of the nation's outstanding museums.

Religion

John Lee Smith, director of the Law, Ethics and Religion Program and dean of students at the Cornell University Law School, will be the speaker at the Sage Chapel convocation at 11 a.m. Sunday, Jan. 27. His topic will be "Fidelity."

Smith, an ordained Baptist minister, was associate director for studies of the Cornell United Religious Work from 1963 to 1971. From 1971 to 1975 he served as executive director of the Centre for Religion, Ethics and Social Policy.

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

Monday through Friday, 12:15 p.m. Anabel Taylor G-19. Catholic Mass.

Every Friday, 1 p.m. Anabel Taylor Edwards Room. JUMA Prayers organized by the Muslim Educational and Cultural Association of Cornell.

Every Friday, 5:30 p.m. Anabel Taylor Founders Room. Shabbat Services (Conservative).

Every Friday, 5:30 p.m. Anabel Taylor Chapel. Shabbat Services (Reform).

Every Friday, 5:30 p.m. Young Israel

House, 106 West Avenue. Shabbat Services (Orthodox).

Every Saturday, 9:15 a.m. Anabel Taylor Edwards Room. Shabbat Services (Orthodox).

Every Saturday, 9:45 a.m. Anabel Taylor Founders Room. Shabbat Services (Conservative).

Every Saturday, 5:15 p.m. Anabel Taylor Auditorium. Catholic Eucharist.

Every Sunday, 9:30 a.m. Anabel Taylor Chapel. Episcopal Eucharist Worship Service. Nursery and Church School provided. Faculty and students welcome. Coffee hour after.

Every Sunday, 9:30 & 11 a.m. Anabel Taylor Auditorium. Catholic Eucharist. Church school and nursery care provided.

Every Sunday, 9:45 a.m. Anabel Taylor Forum. Ithaca Society of Friends (Quakers) adult discussion followed by meeting for worship at 11 a.m.

Every Sunday, 10 a.m. Straight North Room. Korean Church at Cornell.

Every Sunday, 11:15 a.m. Anabel Taylor Chapel. Protestant Church at Cornell. Coffee and conversation after.

Every Sunday, 5 p.m. Anabel Taylor Auditorium. Catholic Eucharist.

Religious Meetings

Every Thursday, 7 p.m. Anabel Taylor Founders Room. Christian Science Organization. Faculty, students, staff and visitors to campus are welcome at weekly readings and testimonies meeting.

Every Sunday, 12:30 p.m. Anabel Taylor 218. Study and discussion hour on Islam. Organized by MECA of Cornell.

Thursday

Jan. 24, 7 p.m. Anabel Taylor G-34. Friends of Israel meeting.

Friday

Jan. 25, 6:30 p.m. *Anabel Taylor One

World Room. Shabbat Dinner with speaker Werner Dannhauser.

Sunday

Jan. 27, 8 p.m. Anabel Taylor G-34. Hillel Council meeting with entire membership.

Monday

Jan. 28, 3:45 p.m. Anabel Taylor G-34. Philosophies of Judaism.

Jan. 28, 7:30 p.m. Anabel Taylor G-30. Midrash Seminar.

Wednesday

Jan. 30, 9 a.m.-2 p.m. Anabel Taylor G-34. Visit by Aliyah Shaliah, Mr. Ehud Gannot. Call Hillel Office for appointment.

Sports

Friday

Jan. 25, 5:15 p.m. *Barton. Cornell Men's JV Basketball-Tompkins Community College.

Jan. 25, 7 p.m. Helen Newman. Cornell Women's Swimming-Pennsylvania.

Jan. 25, 7:30 p.m. Barton. Cornell Women's Basketball-Pennsylvania.

Saturday

Jan. 26, 1 p.m. Barton. Cornell Men's Varsity Track-Army.

Jan. 26, 2 p.m. Helen Newman. Cornell Women's Gymnastics-Massachusetts.

Jan. 26, 6 p.m. Helen Newman. Cornell Women's Basketball-Utica.

Jan. 26, 7:30 p.m. *Barton. Cornell Men's Varsity Basketball-Columbia.

Jan. 26, 7:30 p.m. *Lynah. Cornell Men's JV Hockey-Niagara Falls.

Jan. 26, 8:15 p.m. Oxley Polo Arena. Cornell Men's Polo-Business Men's League Champs.

Sunday

Jan. 27, 1:30 p.m. *Lynah. Cornell Men's JV Hockey-Erie Community College.

Monday

Jan. 28, 4:30 p.m. Helen Newman. Cornell Women's Bowling-RIT

Tuesday

Jan. 29, 6 p.m. Helen Newman. Cornell Women's Basketball-Hartwick.

Wednesday

Jan. 30, 4:30 p.m. Helen Newman. Cornell Women's Bowling-Elmira.

Jan. 30, 7 p.m. Teagle. Cornell Men's Fencing-Princeton.

Thursday

Jan. 31, 7 p.m. Helen Newman. Cornell Women's Basketball-Army.

Friday

Feb. 1, 4:30 p.m. Helen Newman. Cornell Women's Bowling-Fredonia.

Feb. 1, 5 p.m. Barton. Cornell Men's Varsity Wrestling-Yale & Bucknell.

Feb. 1, 7 p.m. Lynah. Cornell Women's Hockey-New Hampshire.

Feb. 1, 7:30 p.m. Oxley Polo Arena. Cornell Women's Polo-Virginia.

Saturday

Feb. 2, 1 p.m. Helen Newman. Cornell Women's Gymnastics-East Stroudsburg & Temple.

Feb. 2, 2 p.m. Lynah. Cornell Women's Hockey-Clarkson.

Feb. 2, 2 p.m. Helen Newman. Cornell Women's Swimming-Rochester & Bucknell.

Feb. 2, 2 p.m. Barton. Cornell Men's Varsity Wrestling-Harvard.

Feb. 2, 2 p.m. Teagle. Cornell Men's Swimming-Brown.

Feb. 2, 4 p.m. Barton. Cornell Men's JV Wrestling-Nassam C.C.

Feb. 2, 7 p.m. Barton. Cornell Men's Track-Louisiana State University.

Feb. 2, 7:30 p.m. *Lynah. Cornell Men's Varsity Hockey-Dartmouth.

Feb. 2, 8:15 p.m. Oxley Polo Arena. Cornell Men's Polo-Virginia.

Meetings

Every Wednesday, 12 noon. Barton Hall Naval ROTC Blockhouse. Diet workshop. Call 277-2113 or 272-7766 for information.

Every Thursday, 7:30 a.m. Anabel Taylor One World Room. Disarmament Study Group breakfast and discussion.

Contact Anabel Taylor main desk for information.

Thursday

Jan. 31, 8 p.m. Laboratory of Ornithology, Sapsucker Woods Road. Finger Lakes Group of the Sierra Club monthly meeting: "Acid Rain: Its Impact on Vegetation." J. Jacobsen, Boyce Thompson Institute. Rides available at 7:30 p.m. in front of Willard Straight and Ithaca Public Library.

Dance

Every Tuesday, 7:30 p.m. Martha Van Rensselaer Auditorium. Folk dancing for couples. Singles, beginners, all ages welcome.

Every Thursday, 7:30 p.m. Anabel Taylor One World Room. Israeli Folk Dancing.

Every Sunday, 7:30-11 p.m. Straight North Room. International Folk Dancing; intermediate teaching 7:30 p.m.; requests 8:30 p.m.

Every Wednesday, 7:30 p.m. Straight Memorial Room. International Folk-dancing; beginners teaching 7:30-9 p.m.; requests 9-11 p.m.

Colloquia

Astronomy and Space Sciences. "The Death of the Sun: Planetary Nebulae." Yervant Terzian, Cornell. 105 Space Science. 4:30 p.m. Thurs., Jan. 24.

Astronomy and Space Sciences. "Disks, Beams and Radio Sources." Paul Wiita, University of Pennsylvania. 105 Space Science. 4:30 p.m. Thurs., Jan. 31.

Seminars

Biochemistry, Molecular and Cell Biology: "A Light Dependent Protein Kinase Activity of Chloroplasts." Ramona Alfonso, 12:20 p.m. Thursday, Jan. 24, 225 Riley Robb.

Biophysics: "Persistent Puzzles in Molecular Mobilization on Somatic Cell Surfaces." Watt W. Webb, 4:30 p.m. Wednesday, Jan. 30, 700 Clark Hall.

Education: "Meditation and Education." Don Kindlon, George Hoagland, and Ken Strike, 4:30 p.m. Monday, Jan. 28, Stone Hall Lounge.

Food Science: "The Construction and Isolation of a Recombinant DNA Molecule Carrying the Galactokinase Gene of Yeast." D. B. Wilson, 4:30 p.m. Tuesday, Jan. 29, 204 Stocking Hall.

General Chemistry: "Liquidons and Gasons; Controversies About the Continuity of States." J.M.H. Levelt Sengers, National Bureau of Standards, 4:40 p.m., Thursday, Jan. 31, 119 Baker Laboratory.

Mechanical and Aerospace Engineering: "Secondary Flow and Turbulence in a Cone-Plate Couette Flow." C. F. Dewey, MIT, 4:30 p.m. Tuesday, Jan. 29, 282 Grumman.

Natural Resources: "Management Objectives of an Arid Zone Reserve for the Hairy-nosed Wombat." Pamela Parker, 4 p.m. Thursday, Jan. 24, 304 Fernow Hall.

Neurobiology & Behavior: "Nepotism and the Evolution of Ground Squirrel Territoriality." Paul Sherman, University of California at Berkeley, 12:30 p.m. Thursday, Jan. 24, Penthouse, Langmuir Lab.

Operations Research: "Statistical Estimation of the Variance-time Curve for Stochastic Processes." Marc S. Meketon, 4:20 p.m. Tuesday, Jan. 29, 305 Upton.

Organic/Inorganic Chemistry: "A Total Synthesis of a Naturally Occurring Cytotoxic Lactone." R. Schlessinger, University of Rochester, 8:15 p.m. Monday, Jan. 28, 119 Baker Laboratory.

Rural Sociology: "Community Land Trusts as a Response to Low Income Housing Needs." Chuck Matthei, Institute for Community Economics, 12:15



The art of throwing a pot is demonstrated by Potshop Director James Floyd at Willard Straight Hall. Lessons for beginners, intermediate throwers and in Raku, a Japanese process of firing pots, will be offered at WSH starting Monday, Jan. 28. For further information and to register, call 256-5170.

January 1980
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Works by Mozart, Schubert and Vaughan Williams will be among those performed by the Trio Dolce at 4 p.m. Sunday, Feb. 3, in Barnes Hall. Members of the trio are (from left) Patricia DeAngelis, piano, Christine Klemperer, soprano, and Barbara Rabin, clarinet.

p.m. Friday, Jan. 25, 32 Warren Hall.

Russian Literature: "Tatlin's Tower Viewed as a Paradigm of Russian Revolutionary Thought," Gail Harrison Roman, 4:30 p.m. Monday, Jan. 28, 24 Goldwin Smith Hall.

Theoretical and Applied Mechanics: "Tickling Torii: The Analysis of Coupled Limit Cycle Oscillators," Philip Holmes and Richard Rand, 4:30 p.m. Wednesday, Jan. 30, 205 Thurston Hall.

Vegetable Crops: "Living Mulch: The Management of Grassy Cover Crops Interplanted with Vegetables," Betty Hughes, 4:30 p.m. Thursday, Jan. 24, 404 Plant Science Building.

Music

The Trio Dolce will present a free public concert at 4 p.m. Sunday, Feb. 3, in Barnes Hall. The concert is being sponsored by Cornell's Department of Music.

Performers are Christine Klemperer, soprano, Barbara Rabin, clarinet, and Patricia DeAngelis, piano.

The concert will include "Parto! ma tu ben mio" from Mozart's opera "La Clemenza di Tito," Hirtentied by Meyerbeer, Three Vocalises by Vaughan Williams, excerpts from a 1974 song cycle by Dominick Argento, Der Hirt auf dem Felsen by Schubert, and Barcarolles, a new work written for the Trio Dolce by Brian Israel, who earned his D.M.A. degree at Cornell several years ago.

Instrumental selections on the program are the 1958 Rhapsody for Clarinet by Willson Osborne and two piano pieces by Debussy: Les collines d'Anacapri and Jardins sous la Pluie.

Klemperer, who received her musical training at Ithaca College, Chautauqua and the Saratoga-Potsdam Choral In-

stitute, has sung leading roles with the Opera Theatre of Syracuse and the Syracuse Musical Theater. She had the title role in the 1974 premiere of Frank DiGiacoma's opera "Beauty and the Beast." She was a 1977 district finalist in the Metropolitan Opera Auditions and is well known as a recitalist and oratorio soloist in Central New York. She has appeared with the Syracuse Symphony Orchestra and Rochester Philharmonic Chamber Players.

Rabin holds degrees in music from Wellesley College and Wesleyan University. She studied clarinet with Felix Viscuglia of the Boston Symphony, Keith Wilson of the Yale School of Music and Stanley Hasty at Eastman. A teacher of clarinet at the Syracuse School of Music, she is a frequent performer with the Syracuse Friends of Chamber Music, Syracuse Musical Theater, Civic Morning Musicals and the Society for New Music. She recently appeared in New York City as soloist with the New York Pro Arte Chamber Orchestra and the Jamaica Symphony.

DeAngelis received her degree in piano performance with high honors from Syracuse University. Her teachers include George Mulfinger, Victor Babin, Ernst Bacon, Frederick Marvin and Gvorgy Sebok. She has played with the Syracuse Symphony Orchestra and its Woodwind Quintet, the Ars Nova Chorale, the Society for New Music and Syracuse Opera Theater. She has been heard frequently in faculty recitals at Syracuse University. She is pianist for the Syracuse Chorale and a member of the Colgate University piano faculty.

Wed., Jan. 30, 8:15 p.m. *Bailey Hall. Faculty Committee on Music Concert: Igor Oistrakh, violin. Works of Beethoven, Bach, Khrennikov, Tchaikovsky, Ysaye, Liszt.

Announcements

Writing Center's Walk-In Service. Monday through Thursday 2-4 p.m. and 6:30-10 p.m.; Sunday 3-8 p.m. Closed Friday and Saturday. Rockefeller 302.

Learning Strategies Workshop. Note-taking, Time Management, Test Preparation and Research Paper among the topics covered. The three-week workshops begin the second week of classes. For more information or to sign up, go to the Learning Skills Center, 374 Olin Hall, 256-6310.

Extramural Registration. January 24, 8 a.m.-4 p.m. Day Hall 105. January 25 is the last day to register without payment of \$10 late fee. 8 a.m.-4 p.m. No new registrations accepted after February 8.

Indoor Play Center. Registration will be held Jan. 25, 9:30-11:45 a.m. in the North Campus Union. Parents and preschool children share the fun with play equipment and toys. For late registration call Lynn Turnquist, 277-4247. Co-sponsored by North Campus Union Board.

Social Events

Saturday
Jan. 26, 9 p.m. Cascadilla Hall. Graduate Student Party. Music and beer. No charge. Sponsored by Grads for Grads and Residence Life.

Friday
Feb. 1, 7 p.m. International Living Center. Married Student Dish-to-Pass Dinner. Couples and children welcome. Call Kathy Williams, 272-3793 or Carol Young, 256-3608.

Sponsored Programs

The Office of Sponsored Programs, 123 Day Hall, 6-5014, announces the following descriptions of programs and deadlines.

Ntl. Inst. for Occup. Safety and Health
 The National Institute for Occupational Safety and Health (NIOSH) is accepting competitive grant applications for research and demonstrations relating to occupational safety and health including innovative methods, techniques and approaches for dealing with occupational safety and health problems.

Fiscal year 1980 budget for this program is 6.4 million dollars. Applications may be received by the Public Health Service deadlines of March 1, July 1, or November 1.

Exxon Education Foundation
 The Exxon Education Foundation has announced its priority areas of concern to be International Dimension of Education and the need for heightened awareness of global issues.

Proposals addressing these societal problems, as well as those that span disciplines and professions and are responsive to efforts to lower barriers between educational institutions and other organizations are encouraged.

National Science Foundation
 Information on preparing proposals for the National Science Foundation's Instructional Scientific Equipment for Undergraduate Science Education Program has been received by the Office of Sponsored Programs, 123 Day Hall. The deadline for receipt of proposals at NSF is February 29, 1980. The purpose of this program is to provide matching support for the purchase of laboratory and instructional equipment needed to implement new or improved undergraduate programs in the sciences. The specific objectives of the program are to en-

courage and support the introduction of modern equipment to improve the "hands-on" experiences of undergraduate students in science and engineering laboratory and field work; and to encourage and support the incorporation of current educational technology into science instruction.

This year Cornell may submit five proposals. No proposal may request more than \$20,000 from NSF, with a commitment by the institution to provide matching funds equal to or greater than the funds provided by NSF.

Due to the limitation of proposals, an internal review procedure has been established to select the five to be submitted. Rather than preparing a full proposal, interested applicants are asked to prepare a concise narrative (maximum of two pages) of their intended proposal, indicating the specific nature of the instructional program. Also required is a budget page showing the items requested. The budget page, signed by the chairman, must indicate the source of matching funds. Five (5) copies of these informal abstracts are to be sent to the Office of Sponsored Programs no later than Wednesday, January 30, 1980. The abstracts will be evaluated, taking into consideration the quality of the program, department need, university priorities, etc. A decision on the five applicants will be made no later than Monday, February 4 giving 3 weeks in which to prepare a detailed proposal in accordance with the NSF guidelines. In order to be received at NSF by February 29, final proposals must be mailed from Cornell by February 26.

Departments interested in applying for this program may obtain a copy of the detailed proposal guide from Peter A. Curtiss in the Office of Sponsored Programs, 123 Day Hall, 6-5014.

NSF/NEH

Recognizing the need to develop among individuals and institutions a greater capacity to analyze issues in the field of ethics and values in science and technology, the National Science Foundation (NSF) and the National Endowment for the Humanities (NEH) have expanded the scope of their existing programs in this field by establishing two new awards:

Interdisciplinary Incentive Awards are intended to permit scholars and practitioners in the mathematical, physical, biological, social, medical and engineering sciences and in the humanities disciplines to pursue specific, problem-oriented activities in association with specialists in fields other than their own, in order to enhance their ability to deal with issues in the field of science and values. Up to 20 such awards will be announced in May, 1980.

Sustained Development Awards are intended to provide long-term support for individuals who have a substantial record of achievement in the field of science and values and who wish to pursue their activities in association with an appropriate institution or organization in order to develop a new base for sustained work in the field. Up to 5 such awards will be announced in May, 1980.

The deadline for filing applications is February 15, 1980. Application forms may be obtained by writing either NSF or NEH. Further details on this program are available at the Office of Sponsored Programs, 123 Day Hall.

H.H. Humphrey Fellowships

The United States Arms Control and Disarmament Agency will conduct a competition in 1980 for one-year Hubert H. Humphrey Fellowships in arms control and disarmament. The fellowships will support unclassified doctoral dissertation research in the field.

The application deadline for the awards, which are for the period beginning September, 1980 is March 15, 1980.

For more information and application materials, write to the Hubert H. Humphrey Fellowship Program, Office of Public Affairs, ACDA, Washington, D.C. 20451.

Graduate Bulletin

The next regular meeting of the Graduate Faculty for approval of the provisional degree list from January will be held at 4:30 p.m. on Friday, Feb. 1, in Kaufmann Auditorium of Goldwin Smith Hall.

To avoid paying the active-file fee of \$200 for the spring term, doctoral students registered for the fall term (or those who took a leave of absence dated 8-30-79 or later) must have met all degree requirements by Feb. 8. This includes filing two acceptable copies of the thesis in the Graduate School office.

Fall 1979 grades for graduate students are available at Sage Graduate School office.

Course registration forms must be turned in by all graduate students to the Sage Graduate Center by Feb. 8. Forms can be filed early to avoid long lines.

Students eligible for employment pro ration must apply each semester (see pp. 11 and 12 of the Graduate School Announcement). Forms are available in the Graduate School office at Sage Graduate Center.

REMINDER: Applications for 1980-81 Cornell Graduate Fellowships are available at the Fellowship Office, 116 Sage Graduate Center. For 1980-81, Sage Graduate Fellowships will provide a stipend of \$3500 plus tuition (less maximum New York State Tuition Assistance Program Award). Completed applications and references must be submitted to the appropriate graduate faculty representative by **Monday, January 28.**

REMINDER: Applications for 1980-81 National Defense Education Act—Title VI (Foreign Language and Area Studies) Fellowships are available at the Fellowship Office. Applicants must be citizens or nationals of the United States who plan to pursue formal training in modern foreign languages and related area studies with the intent of applying their training toward careers in higher education or public service. FLAS Fellowships will provide a stipend of \$2925 plus tuition for the 1980-81 academic year. Applications may be submitted for lan-

guage training/area studies for the following world areas: East Asia, East Europe and Russia, Latin America, South Asia, Southeast Asia. Completed applications must be submitted to the Fellowship Office, 116 Sage Graduate Center, by **Monday, January 28.**

Applications for Graduate Student Travel Grant funds are available at the Graduate School for students who plan to attend professionally recognized or academic meetings for the purpose of presenting papers or participating in an equivalent professional or academic activity. The maximum award is \$300 per student. Applications for awards announced on February 15 must be submitted to the Graduate School by **January 31.**

Applications for need-based financial aid for 1980-81 are available at the Office of Financial Aid, 203 Day Hall. Completed applications for professional degree candidates and law students must be submitted to that office by March 3; completed applications for all other graduate students must be submitted by May 1. All applicants are urged to submit their applications as early as possible.

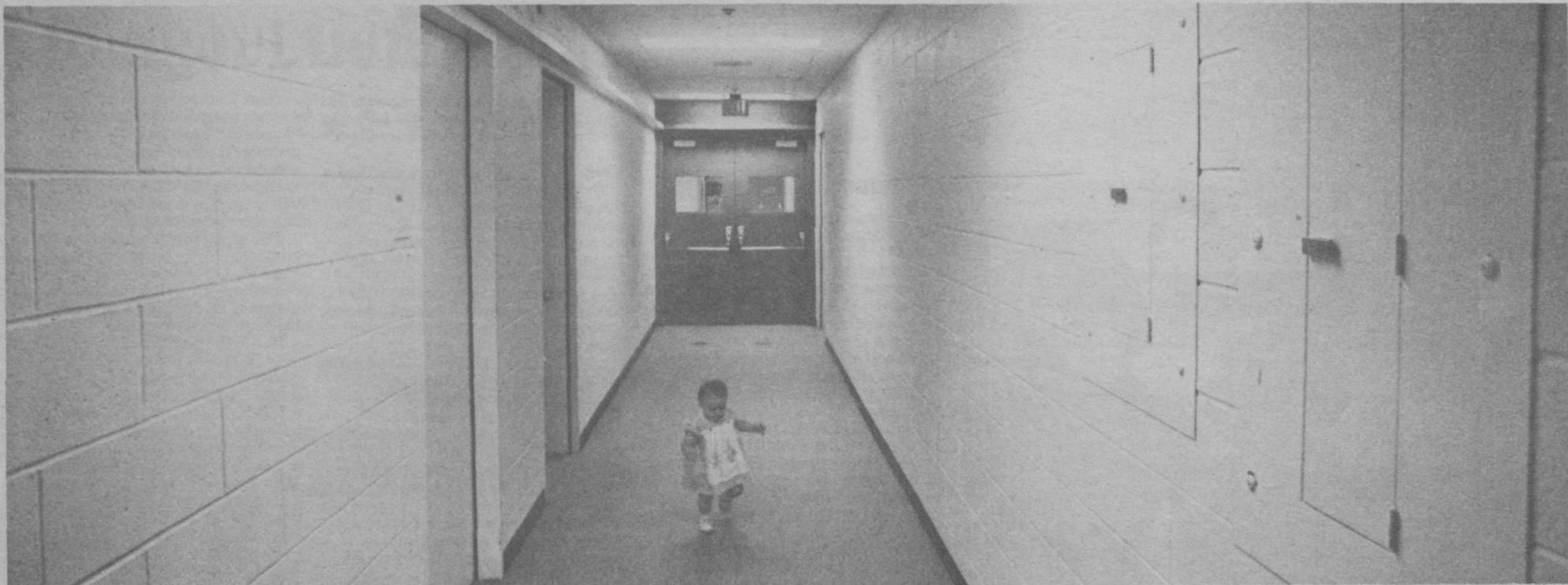
Graduate students interested in summer 1980 work study jobs should sign up at the Office of Financial Aid, 203 Day Hall, beginning February 1. Students must complete a 1980-81 Financial Aid Form and submit copies of 1979 income tax returns. Eligibility is based on demonstrated financial need.

Check the Fellowship Notebook at your graduate faculty representative's office for information on the awards whose deadlines are listed below:

Feb. 15: Calgary Institute for the Humanities—Visiting Post-Doctoral Fellowship

Feb. 15: Kappa Kappa Gamma Fraternity—Graduate Rehabilitation Scholarship

Feb. 28: Business & Professional Women's Clubs of New York State, Inc.—Grace Legendre Fellowships



The very small child in the very big hall outside of the lab in Uris Hall is one of more than 100 infants, aged 2 1/2 months to 1 year, who participate in experiments.

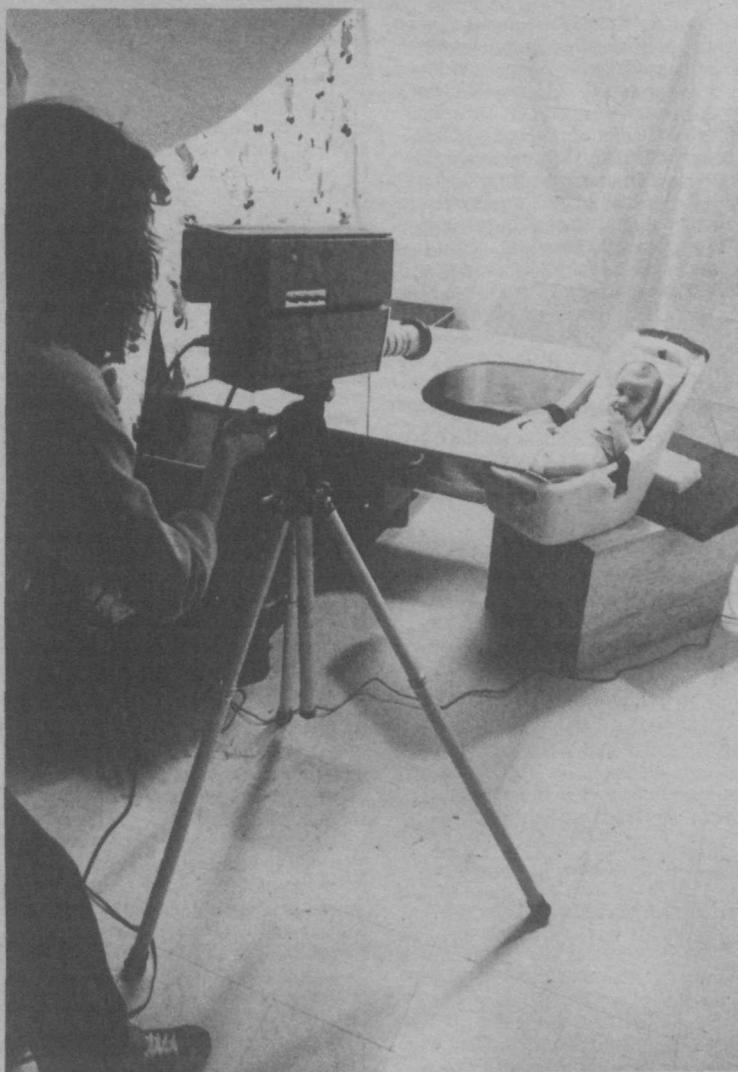
Tots Teach Psychologists In Uris Lab

The Eleanor J. Gibson Laboratory of Developmental Psychology, so named when Mrs. Gibson retired as the Susan Linn Sage Professor of Psychology last summer, seems a heavy appellation for a lab that works primarily with infants. So it's commonly known as "the infant lab."

"Basically, we're trying to find out what the infants can perceive at specific ages and how they change," according to Arlene Walker, an instructor in psychology and assistant director of the lab.

Potential participants for the experiments are found in the birth announcements in the Ithaca Journal, Walker said. When it's possible to get phone numbers, parents are called and asked if they'd be willing to have their children take part.

About 75 percent of the people called bring their children in for the experiments, according to Walker. They make two to four visits of about 30 minutes each in a year. Parents are reimbursed for their expenses.



A "Looming-Zooming" experiment, which looks at a 3-month-old infant's perception of objects moving toward it, is video-taped for later study.



Whole families often come with the infants who take part in the experiments. Jane Megaw-Nyce (left), a Ph.D. candidate in psychology, is one of the researchers involved in the perceptual learning work being done in the lab.

Debate Team Seeks Funds Appeals to Its Alumni

For this University, which has more than 100,000 alumni and is in the late stages of a campaign for \$230 million, a mailing to some 600 alumni seeking between \$5,000 and \$7,000 is minuscule.

But to the Cornell Debate Association, faced with extinction, the appeal and the need are every bit as

great to its members as one for a new theatre arts facility is to the University.

In late August, letters went to some 600 former Cornell debaters from John Rowe, director of debate at the University. The list was developed by Rowe and his team from research of yearbooks dating back to

1915.

"We need approximately \$5,000 to \$7,000 per year to compete effectively against intercollegiate teams," Rowe said. Most of the money is used for travel to compete in tournaments.

Rowe explained that today as many as six two-member teams from the

same school may compete in a tournament which may attract 60 teams. Traditionally, one two-member team from one school competed against another team from another school.

The Cornell Debate Association faces a complete loss of funding after 1979-80, according to Rowe.

The debate team might have folded this year, Rowe said, if the Department of Communication Arts in the New York State College of Agriculture and Life Sciences had not sup-

ported it. But the department can't support the team next year.

"As a result, we have been forced to seek 100 percent of our funding from the Cornell Student Government Organization," said Rowe. "This group has indicated that it will not fund the debate team after 1979-80.

"Therefore, we must turn to the last and best hope we have ... the Cornell debate alumni for survival."

Summary Agenda for Trustee Meetings

Sessions in New York This Weekend

The Board of Trustees of Cornell University and its committees will meet in New York City today through Saturday. The Executive Committee will meet today and the full board on Friday and Saturday.

The agenda for the meetings will include the following items:

Approval of the minutes of the Executive Committee meeting Dec. 11, 1979, and of the meetings of the full board of Oct. 12-13, 1979.

Ratification and confirmation of Executive Committee minutes for meetings held Sept. 11 and Oct. 11, 1979.

Reports by President Frank Rhodes of matters of current interest on the campus.

A recommendation for approval of Bylaw amendments and a resolution to establish a Board of Overseers for the Medical College and the Graduate School of Medical Sciences to replace the Committee on the Health Sciences of the Board of Trustees.

A recommendation for adoption of budget policies as the basis for development of detailed 1980-81

budgets.

A report on the current status of computing operations at Ithaca.

A request for supplemental appropriation for the Cornell Campaign of \$157,172 for new programs to meet the \$230 million Campaign goal before Dec. 31, 1980.

A recommendation to merge two anonymous funds into the Short Term Investment Pool to provide access to the funds in support of academic programs.

A report by Senior Vice President William G. Herbster on fiscal operations through the second quarter of fiscal year 1979-80.

A report of newly classified capital funds.

A request for authorization to proceed with construction of a large animal isolation facility for the College of Veterinary Medicine to be funded by \$760,000 released by the State of New York as part of the 1979-80 Supplemental State Budget.

A request for authorization to proceed with extension of steam lines from Riley Robb Hall to Morrison Hall and tying into existing

lines between Morrison Hall and Boyce Thompson Institute within a project cost of \$848,000 to be financed entirely through the State University of New York.

A request for authorization to accept transfer of jurisdiction without cost from the New York State Department of Environmental Conservation of the Myers Point Spawning Channel Facility in the Town of Lansing for use by the College of Agriculture and Life Sciences.

A report of submission of a proposed research contract to the Naval Electronic Systems Command amounting to \$4,842,730, over a period of three years beginning July 1, 1980, for the National Research and Resource Facility for Submicron Structures on the Ithaca campus.

A report by the president of receipt of a grant of \$2,071,800, from the National Science Foundation for continued support of a project entitled "Seismic Reflection Profiling of the Continental Basement" through December 1980.

A report of the death of Trustee Emeritus Louis Hollander in New York City on Jan. 3, 1980.

A report of the re-election of Charles H. Riley, Class of 1938, as president of the State Agricultural Society for 1980, thus continuing as an ex-officio member of the board.

A report of policies and procedures for the development of financial aid packages for students.

A report for discussion of progress of the review committee appointed to evaluate activities of the Campus Council as required by the Council Charter approved in April 1977.

A report of the Cornell Fund including the Tower Club.

A report on the status of the Cornell Campaign and a report of gifts received through Dec. 31, 1979.

A report on the Status of Women and Minorities at Cornell University.

A report of control procedures which are applied to federal grants and contracts.

A special symposium for discussion of ongoing research into the

causes, treatment and prevention of thromboses by members of the faculty of the Cornell Medical College.

A report from the Executive Committee of the adoption of a revised charge for the Academic Affairs Committee.

A report from the Executive Committee on revision of statutes relating to Cornell and the State University of New York.

A report from University Counsel Relihan on the status of the lawsuit against the University seeking public access to meetings of the Board of Trustees.

Annual reports of the Investment Committee and of the Audit Committee.

Reports from the Committee on State Relationships, the Academic Affairs Committee, and the Committee on the Health Sciences.

A request that the president be authorized to confer degrees at the end of appropriate periods in January, May and August.

People

Milton J. Esman, the John S. Knight Professor of International Studies, has been elected to a third term as director of the Center for International Studies, effective through June 1982. The action was taken by the Executive Committee of the University Board of Trustees. Director of the center since 1969, Esman's teaching and research interests in recent years have focused on the politics and administration of rural development in Third World countries; and the politics of ethnic, social and religious pluralism and the process of regulating communal conflict.

Roger M. Spanswick has been elected professor of plant physiology in the Division of Biological Sciences at the State College of Agriculture and Life Sciences. Spanswick, a researcher and teacher in the Section of Botany, Genetics and Development since 1967, is known for his investigations into the relationship between the electrical properties of plant cell membranes and the movement of ions across the membranes. A native of England, Spanswick took his Ph.D. degree in 1964 at the University of Edinburgh.

Joan Lockwood Parker has

moved from the office of Technology Transfer in the Department of Patents and Licensing to the Office of Transportation Services. She is now an administrative aide with **William E. Wendt**, director of transportation.

Professor emeritus **John F. Cornman** of the State College of Agriculture and Life Sciences has been honored by the New York State Turfgrass Association. Cornman, a specialist in turfgrass management and an authority in this field, received the Association's Citation of Merit given annually during its turfgrass conference.

Michael L. Shuler has been elected an associate professor with tenure in the School of Chemical Engineering. Winner of the 1977-78 Excellence in Engineering Teaching Award, Shuler joined the Cornell faculty in 1974 after receiving his doctorate from the University of Minnesota. He received his B.S. degree from the University of Notre Dame in 1969. His research is in the field of biochemical engineering and deals with converting animal waste into feed; the use of plant tissue cultures to produce biological products such as drugs; developing a mathematical model of the growth of a bacterial cell, and testing the feasibility of using biological waste treatment in a closed life support system.

ognized as a scholar in the field of English literature, in particular for his work in the area of English Romantic poetry. He received the bachelor's degree from Princeton University in 1958. He also received a bachelor's degree in 1961 and the master's degree in 1964, as a Rhodes Scholar, from Oxford University. He received his Ph.D. in 1965 from Harvard University.

Several appointments and promotions have been made in the General Services section of the Division of Facilities and Business Operations at Cornell University.

According to an announcement by **Wallace B. Rogers**, director of General Services, **David R. Chatterton** has been appointed to the position of assistant manager of purchases in Ithaca. **Evelyn J. Baylor** has been appointed administrative manager of Laundry and Warehousing, a position held by **Harris B. Dates** until his retirement last year.

Donald H. Sweet has been named operations manager of the Laundry Department, replacing **Donald Hall** who resigned in June. **Debra Roeske** has replaced Baylor as administrative aide in Enterprise Bookkeeping.

Ronald R. Hoy has been appointed associate professor of neurobiology and behavior with indefinite tenure in the Section of Neurobiology and Behavior, Division of Biological Sciences. Hoy's research program in neurobiology is primarily divided into an interest in the neural basis of insect communication and an interest in neurodevelopment. The neurobehavioral basis of communication is part of a new discipline, "Neuroethology," in which Hoy has an established international reputation. Hoy received his bachelor's degree from Washington State University in 1962 and his Ph.D. from Stanford University in 1968.

William D. Pardee has been named chairman of the department of plant breeding and biometry in the State College of Agriculture and Life Sciences. He succeeds **Robert L. Plaisted**, who has returned to full-time teaching and research in the department after 15 years as department chairman. A member of the Cornell faculty since 1966, Pardee has served as extension leader in the department and will continue to fill this role.

Carol L. Anderson has been appointed associate director of Cornell Cooperative Extension and associate professor in the department of human development and family studies in the State College of Human Ecology. Anderson came to Cornell from Iowa State University where she was an associate professor of child development, and an assistant state leader in the home economics program.

Reeve Parker has been appointed professor in the Department of English. Parker is internationally rec-

CORNELL UNIVERSITY LIBRARIES Schedule of Hours*

Spring Semester - January 21, 1980 through May 20, 1980**

LIBRARY	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Africana Studies	10A-8P	10A-8P	10A-8P	10A-8P	10A-5P	1P-5P	5P-8P
B & PA ***	8A-12mid	8A-12mid	8A-12mid	8A-12mid	8A-12mid	9A-5P	12n-12mid
Engineering # ***	8A-11P	8A-11P	8A-11P	8A-11P	8A-6P	9A-5P	1P-11P
Entomology	9A-5P 7P-10P	9A-5P 7P-10P	9A-5P 7P-10P	9A-5P 7P-10P	9A-5P	10A-5P	Closed
Fine Arts	8A-11P	8A-11P	8A-11P	8A-11P	8A-10P	9A-5P	1P-11P
Hotel **	8:30A-11P	8:30A-11P	8:30A-11P	8:30A-11P	8:30A-5P	12N-4P	2P-11P
I & LR ***	8A-11P	8A-11P	8A-11P	8A-11P	8A-5P	9A-5P	1P-11P
Law #	8A-12mid	8A-12mid	8A-12mid	8A-12mid	8A-10P	9A-5P	11A-12mid
Mann	8A-11P	8A-11P	8A-11P	8A-11P	8A-10P	9A-5P	1P-11P **
Mathematics	8A-11P	8A-11P	8A-11P	8A-11P	8A-10P	9A-5P	1P-11P
Music	9A-11P	9A-11P	9A-11P	9A-11P	9A-5P	12N-5P	2P-11P
Olin #†	8A-12mid	8A-12mid	8A-12mid	8A-12mid	8A-10P	9A-10P	1P-12mid
Physical Sciences	8A-12mid	8A-12mid	8A-12mid	8A-12mid	8A-12mid	8A-12mid	8A-12mid
Uris #	8A-12mid	8A-12mid	8A-12mid	8A-12mid	8A-10P	9A-10P	12N-12mid
Veterinary	8A-11P	8A-11P	8A-11P	8A-11P	8A-5P	9A-5P	2P-11P

*Except for vacation periods when special schedules will be issued.

**The last date of this schedule may vary with changes in the schedule of final examinations.

*** Schedule may vary. B & PA, Engineering, & I & LR Libraries closed at 5:00 p.m. on last day of their scheduled exams.

† Mann Reserve Desk only open at 11A on Sundays.

Hours will vary during study and examination week. Changes will be posted.

No paging at Olin after 6P on Saturdays.

Brief Reports

Alumni University Changes Its Name

Cornell Alumni University, also known as CAU, is taking on a new name but keeping its old initials.

In order to reflect recent enrollment in the summer adult education program more correctly, CAU will stand for "Cornell's Adult University" in the future, according to Robert D. MacDougall, dean of summer session, extramural courses and related programs, who oversees CAU.

"Over the years, close to 50 percent of the people who've become 'alumni' of CAU hold degrees from institutions other than Cornell," MacDougall said. "CAU will probably always be 'Cornell Alumni University' to Cornellians, and that's fine, but by calling it 'Cornell's Adult University,' we hope to reflect the growing interest among others."

CAU has been open to Cornellians and non-Cornellians since its inception in 1968, though the number of non-Cornellians has risen sharply since 1975, according to G. Michael McHugh, director of CAU.

The program and attendance have increased dramatically since 1968. In the first year, some 300 adults took part in the two-week program of two seminars. Last year nearly 900 adults participated in the six-week program of three seminars and 28 special interest courses.

The Youth program, conducted simultaneously with the adult program, attracted some 200 youngsters in its first year. Last year, nearly 600 attended.

Women's Studies Seeks Nominations

The Women's Studies Program is seeking nominations and self-examinations of Cornell faculty members to serve on its Executive Board.

Women's Studies, a permanent program in the College of Arts and Sciences, is designed to encourage the development of teaching and scholarship about women and sex roles for both women and men at Cornell and also to cooperate in public service activities with the University's extension services.

Policy for the program is set by the Executive Board, composed of faculty and students at Cornell and members of the Cornell and Ithaca communities who have an intellectual interest in women's studies.

Cornell faculty who wish to nominate themselves or others should contact the Women's Studies Program, 431 White Hall, 256-6480, for details. Nominations will be open until Feb. 14. An announcement of student, staff and community members' elections will be made in March.

Kram Award Winner Named

Maria Angela DeGiglio of Pateron, N.J., has received the Judith Ellen Kram Award from the Women's Studies Program.

DeGiglio, a senior in the College of Arts and Sciences at Cornell, is using the award to study the personal, family and community roles of Italian-American women in Syracuse, New York, this semester.

The Kram Award was established by Ruth Kram and Daniel Kram (Cornell '48) of West Orange, N.J., in memory of their daughter, Judith, a former member of the Class of 1977 at Cornell and an advocate of field research opportunities for undergraduates.

The award provides up to \$1,000 for use in meeting expenses associated with field research projects on subjects related to the status of women. Competition for the award is open to undergraduates in all colleges at Cornell.

Council to Meet This Afternoon

The next meeting of the Campus Council is scheduled for 4:45 p.m. today in 701 Clark Hall.

Items on the agenda include a report from the Third Year Review Committee, which was formed in October to review and evaluate the council. The review is being conducted in accordance with the charter of the Campus Council.

The council also will hear a report from the Referenda Committee and consider proposals from the Internal Operations Committee.

All Campus Council meetings are open to the public.

Employee Newsletter Will Be Discussed

A proposal for an employee newsletter will be discussed at a brown bag luncheon for employees from noon to 1 p.m. Monday, Jan. 28, in 135 Emerson Hall.

The lunch is sponsored by the Campus Council Committee on Cornell as an Employer, by employee-elected trustees and employee-elected members of Council.

Suicide Prevention Seeks Counselors

The Suicide Prevention Service of Tompkins County is interested in recruiting more faculty and staff from the University for work as volunteer counselors.

The service is now interviewing applicants for its next training program, which starts Feb. 7 and runs from 7:30 to 10 p.m. Mondays and Thursdays until March 7. In addition, an all-day session is planned for Saturday, Feb. 9.

After completing training, volunteers are asked to serve 15 hours a

month in telephone duty, and to attend two in-service meetings monthly.

The service has people on telephone duty around the clock to help people in all stages of distress.

For information, contact the Suicide Prevention office at 272-1505.

Experimental College Offered by Unions

Short, non-credit courses in bartending, auto mechanics, dance, massage and wine appreciation are just five of some 40 courses being offered this semester as part of the University Unions Experimental College.

The courses, offered to the Ithaca and Cornell communities, are designed for people who are interested in a subject, but do not have the time or money to enroll in a formal University course, according to Toni Riccardi, program director.

The courses, which meet once or twice a week for 8 to 10 weeks, have only a minimal non-refundable charge for participants, Riccardi said.

Registration will be from 6 to 10 p.m. Wednesday, Feb. 13, and from 11 a.m. to 6 p.m. on Thursday, Feb. 14, in Willard Straight Hall.

Brochures are available at 535 Willard Straight Hall and at the main desks in the various Unions buildings. For further information, call 256-7131.

Shirley Chisholm To Give Talk Here

Rep. Shirley Chisholm will be the first speaker in a new lecture series to begin this month at the State College of Human Ecology.

The Knapp-Failing Lecture Series honors two previous deans of the college, David C. Knapp and Jean Failing, who guided the college in its transformation from home economics to human ecology beginning in 1969. Jerome M. Ziegler, dean of the college, established the lecture series "to bridge the gap between academics and public service by involving outstanding people from both of those fields as part of the college's mission."

Chisholm will talk at 8 p.m. Thursday, Jan. 31, in Statler Auditorium.

Ziegler invited Chisholm to inaugurate the series "because her work as a teacher and a public

servant exemplifies so much of what many of us are trying to teach our students."

A specialist in early childhood education and child welfare, Chisholm was first elected to Congress in 1968 from the 12th district in the Borough of Brooklyn. She entered public service in 1964 when she was elected to the New York State Assembly. Chisholm has taught school, directed a day nursery, and was involved in planning for community facilities and in-service training.

She earned the bachelor's and master's degrees in education and administration from Columbia University and has received 15 honorary degrees from colleges and universities across the United States.

The senior Democratic woman in the House of Representatives, Chisholm is the only woman—and the only black American—to sit on

the House Rules Committee. She has served also on the Education and Labor and Veterans Affairs Committees of the House.

Employees Offered A Tax Shelter

All regular full- and part-time exempt and non-exempt Cornell employees and faculty are eligible to participate in TIAA/CREF's Tax-Deferred Annuity Plan, according to University Personnel Services.

This plan permits employees to make tax-deferred contributions through a salary reduction arrangement which will serve as a tax shelter now and extra retirement income later.

Anyone interested in a lower income tax deduction and an increased retirement income through contributions to TIAA/CREF should call the Benefits Section, 6-3936.

Library Consortium

(Continued from Page 1)

effectively and efficiently, cooperating in the development and management of collections, augmenting the book preservation activities of the member libraries, and in furthering the development of a national bibliographic network.

While preparing for full utilization of RLIN, the Cornell Libraries will maintain membership in the

Ohio College Library Center, Inc. in Columbus, Ohio. Over the years the OCLC has developed the largest computer-based data base of bibliographic information. Martin expressed the hope that it will be possible for Cornell and other research libraries to make use of both the OCLC and RLIN in the future.

OFFICE OF THE JUDICIAL ADMINISTRATOR CASE REPORTS FOR NOVEMBER 1979

No. of persons	Violations	Summary Decision
1	Theft of food from Cornell Dining	Written Reprimand; \$20 fine OR 7 hours of community service
1	Misuse of library privileges	Warning
2	Attempted theft of University property	WR; \$75/25 hrs. C.S.
1	Disruptive behavior in a residence hall	WR; \$125 suspended fine
1	Theft of a book from the Campus Store	WR; \$100/33 hrs. C.S.
3	Discharge of a fire extinguisher	WR; \$125 fine-\$50 of which is suspended; \$75/25 hrs. C.S.
1	Misuse of a University parking permit	WR; \$50 suspended fine
1	Misuse of a library book	Warning
1	Damage to another person's property	WR; \$40 restitution

EARS Counselors Sought

Every Wednesday evening, a group of Cornell University students, faculty and staff members meet to practice the art of listening.

They are counselor trainers and trainees of Empathy Assistance Referral Services (EARS), a non-professional group dedicated to listening to the thoughts and problems of people at Cornell. Counselors — through face-to-face contact or over the phone — help people clarify their problems and explore alternatives.

Training programs for EARS volunteers start at the beginning of each semester. The one for this semester starts on Wednesday, Jan. 30. Anyone interested in participating should register with Terry Redmond in the Dean of Students Office, 103 Barnes Hall, 256-3608, no later than Friday, Jan. 25.

"EARS offers non-judgmental short-term counseling by skilled volunteers who have undergone a

minimum of one semester of training and have passed through a rigorous selection process," said Mona Schonbrunn, staff associate in the Dean of Students Office.

According to Schonbrunn, EARS training entails committing oneself for one two-and-a-half hour meeting a week for a minimum of one semester. Trainees are divided into small groups in which they learn counseling skills by role-playing. Counselors are also informed about different community and campus referrals.

"One of the things we try to teach people about counseling is how to be able to listen without giving advice," Schonbrunn said.

The EARS Counseling Office is located in Room 529 Willard Straight Hall. The hours are 5-11 p.m. Sunday through Thursday, and 7-10 p.m. Friday and Saturday. The phone number is 256-3277.

Help Is Needed

The Uris Library Reference Department is compiling a list of typists, editors, tutors, proofreaders and translators who would be available to be hired by students needing help in those areas. Persons interested in being included in that listing should fill out the form below and return it to the Uris Library Reference Department or stop by the Reference Desk in Uris before Feb. 20.

Name _____

Phone Number (office and home) _____

Address _____

Translation Typing Proofreading Editing Tutoring
Type of Service (Circle One)

Once this form is received, the Reference Desk will be contacting those who sign up for further details.