Rotating grants to help interdisciplinary studies

In the next three years, Walter I. Cohen will as well read his theory of culture as he has been in Renaissance drama, his original field of scholarship. Robert W. Frank will add insights from psychology, philosophy, sociology and biology to his already richly about theories of economic behavior.

Martin Bernal will turn aside from his study of revolutionary Chinese politics and contemplate the African and Asian contributions to Greek and later Euro-American civilization, on which he has written a pioneering book, "Black Athena."

All three professors in the College of Arts and Sciences will be given time to develop interdisciplinary courses incorporating their new knowledge through a new series of grants financed by the Andrew W. Mellon Foundation. Because the support is for a limited time and then will go to other faculty members from the college, the subsid- idized chairs have been dubbed "folding chairs."

Barry Adams, vice provost for undergraduate education, welcomed the grants. "One of the distinctive features is that faculty members are perceived precisely as teachers," he said. "It sense a renewed interest and a new willingness to think about and talk about the art of teaching."

The three initial grantees were chosen from nearly three dozen applicants. College of Arts and Sciences Dean Geoffrey W. Chester and Associate Dean Jean Kramnick told faculty they regard the Mellon chair as "an important step in a process of curriculum renewal and reform" that would enable teachers "to transgress the boundaries of their departments and fields and to present courses that embody new syntheses to the College community."

Cultural Studies

Cohen said he has been promoting among faculty colleagues and administrators the idea of cultural studies as a discipline of equal validity with such other psychol- ogy, sociology and philosophy.

The bibliography in this area has virtually exploded in the last 15 years," he explained. His new "Introduction to Cultural Studies" course will present not the great masterpieces of European culture that every educated person supposed should know, but rather the concepts of culture and society, the history of culture, the connections between elite and popular culture and the relation between American and foreign cultures.

"As a Renaissance scholar, my field includes the era of exploration," Cohen noted. "This might lead to a future course relating culture to empire. "Today there are few colonies in the world, yet American cul- ture is influential worldwide, even in the U.S.S.R., where you see blue jeans and braid. Yet America's economic influence is not present," he added.

Cohen plans to use the 1960s as his case study in the history of culture. "Having lived through it, I have some scholarly expertise, having slept, eaten and breathed it every day," he explained.

Decline of Ancient Greece

Bernal speaks knowledgeably of the resistance to the recent economic reforms in China, arising from traditional mores and the desire of party cadres to retain authority - a subject on which there has been vastly more knowledge since China began to admit foreign scholars. "There are some areas of Guangdong where every district has had an American social scientist," he said. Bernal recently developed an interest in the history of art and types of teaching ancient Greek - which he described as "a hobby that's gone out of control."

"The Greeks in classical times saw their foundation as a culture deriving from earlyContinued on page 7

Theory Center to get IBM's largest computer

Research projects ranging from treating eye cancers with sound waves to theorizing how galaxies of stars collapse to form black holes will be aided when IBM Corp. pro- vides its most powerful computer, the 3090-600E, to the national supercomputer center here.

The new $20 million system for the The- orey Center, which is sponsored by the National Science Foundation, is among the first of the new IBM machines to be installed. Cornell's 3090-400 will be upgraded to the 3090-600E super- computer in July. The computer is expected to speed the advance of research in medi- cine, biology, geology, physics, astrophysics, electronics and engineering.

"In making this commitment, IBM is recognizing the great importance of the mis- sion of NSF's supercomputer centers," said Gordon Bell, NSF assistant director for computer and information science and engi- neering. "Providing the most advanced supercomputers to researchers at the fore- front of their fields is vital to maintaining international leadership in science and technology."

According to Theory Center Director Kenneth G. Wilson, "The IBM commit- ment comes at a critical time for the Theory Center. With over 200 projects now depend- ing on our facilities, we have found that the current IBM 3090-400 is now fully utilized. To continue to provide the academic research community with the most advanced facilities, we must stay on the frontier of technology, and the 3090-600E computer will allow us to do that."

Austin Kipflinger, chairman of Cornell's Board of Trustees, said, "This late- est exam- ple of the extraordinarily fruitful collabora- tion among Cornell, IBM, and NSF is most welcome and badly needed."

"Clearly, the vision of the Theory Center director and his colleagues of a research enterprise energized by supercomputing is coming true. This offering from IBM will yield enormous benefits, from the insatiable thrill of being on the scientific frontier to the hard dollars-and-cents value of gaining in the international high-technology race," Jack Kuehler, executive vice president of IBM, said, "Providing this new computer to Cornell is doubly important for IBM. We are pleased to be able to aid scientific pro- gress in a wide range of areas. And we also welcome the opportunity to have our new system exercised to its full capabilities by some of the finest scientific and technical minds in the country."

The IBM 3090-600E has about 60 per- cent more processing power than the 3090-400, currently housed in the center. The new Cornell machine includes six processors, each with a vector facility, which can operate either singly on separate computing problems or in parallel on the same problem. The system will have a memory of 768 million bytes, 256 million bytes in central storage and 512 million bytes in expanded storage. Another 512 million bytes of expanded storage is scheduled for delivery in the first quarter of 1988.

"The Theory Center is committed to advancing supercomputing, particularly in the areas of parallel processing, large virtual memory, and IBM compatibility," said Wil- son, a 1982 Nobel Laureate in physics.

"We were especially interested in the 3090-600E because it affords us the oppor- tunity to advance in all these areas. It offers extreme parallel capabilities and is the only supercomputer that is mass produced."

The Theory Center here was established in February 1985 with a $21.9 million NSF grant. It is one of five such facilities in the nation. The other centers are at the University of Illinois and the University of Pittsburgh/Carnegie-Mellon University.

The Cornell center currently has a budget of $16.2 million a year, $5.4 million of which comes from the NSF. Additional funding comes from the State of New York, Research Institute Corporate Associates, Cornell, the NSF Networking Program, Floating Point Systems Inc. and in-kind contributions.

The NSF currently consists of an IBM 3090-400 computer with four vector facili- ties, 128 megabytes of main storage and 512 megabytes of expanded storage. In addition, the system uses a powerful tech- nique called virtual memory, which is a method of simulating through the operating system a much larger storage than is actu-
Pakistan ambassador sees sign of nuclear proliferation

Robert R. Morgen, acting chairman of the English Department, Michael McFeir, a visiting professor from the International University of Japan, and Frank Haber, a reporter from the Cornell Student Voice, held a roundtable discussion on March 25 about the future of the Soviet Union.

The roundtable was held as part of the Social Science Research Center's quarterly symposium series. The symposium is designed to bring together students and faculty to discuss a range of issues related to the social sciences.

The discussion focused on the current state of the Soviet Union and its potential implications for the future. Attendees were encouraged to ask questions and engage in a free-flowing conversation about the topic.

The roundtable was led by Morgen, who provided an overview of the current political landscape in the Soviet Union. He highlighted key changes that have occurred in recent years, such as the end of the Cold War and the dissolution of the Soviet Union.

Morgen noted that the collapse of the Soviet Union has had significant implications for the region and the world. He emphasized the need for continued dialogue and analysis to better understand the implications of these changes.

McFeir added that the end of the Cold War has brought new challenges to the region. He argued that the U.S. must play a more active role in the region to ensure stability and promote democracy.

Haber underscored the importance of understanding the role of religion in the region. He noted that religion plays a significant role in shaping political and social dynamics in the region.

The roundtable concluded with a question and answer session, during which attendees were able to ask their own questions and engage in a thoughtful discussion about the topic.

The Social Science Research Center's quarterly symposium series is an ongoing event that brings together students and faculty to discuss a range of issues related to the social sciences. The center is committed to promoting dialogue and analysis on important social and political issues.

The next quarterly symposium will be held on April 22 and will focus on the role of technology in society. For more information, please visit the Social Science Research Center's website.
Biologists invent gun for shooting cells with DNA

A gun developed by biologists at the Agricultural Experiment Station at Geneva shoots DNA into living cells. The researchers say they have produced protein in a wide range of plant cells, and should work with animals cells as well. The gun, which can deliver genetic material to thousands of plant cells with one blast, is said to be faster and more efficient than other methods of inserting genetic material into plant and animal cells.

The gun, which contains a barrel of a .22-caliber rifle barrel is equipped with a firing pin, which detaches a gunpowder-filled blank cartridge. The force of the exploding gunpowder drives a projectile through the gun barrel, pushing ahead thousands of microscopic tungsten particles — each between one and four millionths of a meter in size — that have been coated with RNA or DNA.

A steel plate with a 1-millimeter hole in the center stops the nylon projectile but allows the particles to exit the gun barrel and bombard the target — which is about one-half-inch square — at velocities of more than 1,000 miles per hour.

The high velocity and small size of the tungsten particles allow them to pierce cell walls without damage. Once inside the cells, the genetic material goes to work.

Assisting in the four-year development of the gene gun were Edward D. Wolf, director of the National Nano fabration Facility at Cornell, and Nelson K. Allen, a research scientist at that facility.

The first tests of the gene gun used RNA from tobacco mosaic virus and DNA from bacteria on the living tissue of onion bulbs. The RNA produced a form of virus called viral inclusion bodies, proving that the RNA was functioning. The DNA contained a code to produce chloramphenicol acetyltransferase, and that enzyme appeared in the onion cells.

Ray Wu, a Cornell professor of biochemical, molecular and cell biology, assisted with biochemical assays of the DNA in onions. He is now studying the technique for genetic engineering of rice.

The gun, which can deliver genetic material to thousands of plant cells with one blast, is said to be faster and more efficient than other methods of inserting genetic material into plant and animal cells.

The new technique has immediate use in studying the activity of foreign genes in plants, the researchers said. Further refinement of the technique can cause transformation of plant cells, allowing a desirable foreign gene to be incorporated in a host, they added.

Klein and Sanford's particle gun is similar to a shotgun. The caliber of a .22-caliber rifle barrel is equipped with a firing pin, which detaches a gunpowder-filled blank cartridge. The force of the exploding gunpowder drives a projectile through the gun barrel, pushing ahead thousands of microscopic tungsten particles — each between one and four millionths of a meter in size — that have been coated with RNA or DNA.

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Morieley describes new emphasis on capital planning

James E. Moriey Jr., vice president and treasurer, has been nominated by President Frank H. Rhodes to be senior vice president. Pending approval by the Board of Trustees, the appointment would become effective July 1. In his new position, Moriey would be responsible for five years for the university's total financial operation and from the units themselves. My financial planning experience can be of assistance in this area.

Q: What particular or special strengths do you feel that you bring to the position? A: I hope I can contribute in a number of ways. First, I listen well. And because of that, I learn from others. Second, I think I have established a good working relationship with President Rhodes and Provost Barker and can translate the goals they have identified to the support areas that report to me. My experience with other universities has given me important perspective on the issues, problems and opportunities facing higher education and Cornell.

The second is leadership in the process of developing staff support, working not only with the senior vice president's organization, but also with the new organization in the provost's office. The goal is to coordinate more effectively the "inter-workings of the university." No single function survives on its own. Each department must work effectively with organizations adjacent to it. In these efforts of team building and sorting out institutional priorities, I feel I have something to contribute.

Planning will be increasingly important. We've started the process of capital planning. This process takes a more disciplined look at Cornell's new initiatives, whether it's a new physical facility or a new program, something that requires significant capital funding. New capital programs need to be looked at within the framework of institutional planning. That effort has begun effectively under the leadership of Associate Provost John C. Sanford and I expect it will be further strengthened by the new organization in the provost's office. I see the senior vice president contributing in major ways to that effort. To succeed, that will require greater involvement of all the deans, center directors and so forth, as well as the senior staff who report to the senior vice president.

This emphasis on planning and ordering our priorities is essential for resource allocation.

Continued on page 8

Claude Levett

Bill Mott, a senior in the College of Agriculture and Life Sciences, looks up a quotation.

Roger Segelken

"These findings indicate that particle bombardment can be used to deliver DNA or RNA into large numbers of plant cells simultaneously and that foreign nucleic acids introduced by this process can subsequently express, " Klein and Sanford wrote in the Nature article.

Another method, microinjection of a genetic material, works on only one cell at a time. Particle bombardment transfers genetic material to thousands of cells at a time, the scientists said.

The first demonstrations of the gene gun were on the relatively large cells in the epidermal (or outside) cells of plants. "It remains to be shown that smaller cell types, as are found in regenerative plant tissues, can be stably transformed by this method," the researchers wrote.

Recent experiments with eggplant and corn indicate particle bombardment will be a "very promising system" for tissue trans- formation, Sanford said. "If one can stably transform a plant cell, then no reason why this technique will not work with animal cells.""
Dramatic changes predicted for farms of the 21st century

As the 21st century approaches, American agriculture faces major economic changes and opportunities than in past years. This is the report from speakers at a recent symposium here celebrating 100 years of the Cornell Agricultural Experiment Station.

Focusing on the theme, "The Next Century," speakers covered topics ranging from the role of agricultural research in the world economy to the impact of technology on the 21st century farm. More than 400 people attended the two-day conference May 4-5.

Secretary William Brock, whose topic was holding jobs, going to school or serving in the military.

The AFL-CIO's secretary-treasurer, Randolph Nygren, told the audience that the American farm as it heads towards the 21st century will probably be more rapidly and broadly than ever before, "a job not just for farmers but all Americans." He said, "It must be a joint effort of government, industry, producers,processors, distributors, wholesalers and retailers.

Mid-day should find the Cornell birders in New Jersey's pine barrens, with their eyes closed. "Mostly we stand listening and concentrating. We probably pick up 75 percent of the species by ear — not by sight — and then try to identify them visually," Bonney said. "You'll be surprised how much time we spend with our eyes closed."

"Cities are to be avoided at all costs because we want to be out listening and looking, and not carrying a duffel bag stuck in traffic is no fun at all." Bonney is replying at a flat rate of 63 million a year. New York's more than 1,300 food processing and manufacturing plants employ 65,000 people, with a payroll of about $300 million a year. "Companies providing supplies and services to farmers, along with food processors, distributors, wholesalers and retailers provide another 400,000 jobs. And beyond that, agricultural expenditures indirectly support the jobs of many more people in state by state economies.

Cardinals likely to make the World Series ... of Birding

Money grows on trees — or at least perches there — for Cornell ornithologists who chase birds in New Jersey. For the fourth year, a five-person team from the Laboratory of Ornithology will test their eyes, ears and instincts in the World Series of Birding. The race to spot the most species ends in the 24-hour period of May 16 will take them from the woods to the shore of the Garden State as they compete against the best birders in the land.

Each bird species they find adds funding, in the form of pledges to the research and education programs of the Laboratory of Ornithology. Last year, the Cornell team found 169 kinds of birds. That wasn't enough to win the event, but all the pledged diners, quarters and dollars earned the laboratory more than $18,000.

"There's probably no scientific value in this enterprise. It's just a snapshot in time of the birds in New Jersey that particular day," said Rick Bonney, a Cornell team member and editor of The Living Bird Quarterly. "We do it for fun and for the laboratory."

Other Cornell team members are Greg Butcher and Todd Engstrom of the Bird Population Studies program here, Mike Braun, a bird buyer at the National Cancer Institute; and Andy Dasinger, a engineer from Massachusetts.

Beginning midnight in the Great Swamp National Refuge, the Cornell team and 26 others moved into their cars and drive to sites where they saw the most birds in realworld runs earlier that week. The Cornell team will spend Saturday's darkest hours in the woods of northern New Jersey, then head for the shore.

"Dawn only comes once in 24 hours, and we like to be at the Great Swamp National Wildlife Refuge when the sun is up in those early hours of singing birds. Last year we had 68 species by 6:30 in the morning, before most people were out of bed," said Bonney, who has led the Cornell team every year since 1984. Each team member receives a check at the end of the World Series of Birding coincides with the peak of spring migration through New Jersey. One team found 219 species in 1984, and 201 in 1985. Since New Jersey-based birders have an edge on out-of-state competitors, the event also gives an award for the most species spotted.

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CALENDAR

by Cornell Cinema. An (*) indicates that $2.50 admission is charged.

Friday, 5/15
“Animation Celebration” (1986), 7:30 and 9:45 p.m., Stater Hall.*
“Crimes of the Heart” (1986), directed by Bruce Beresford, with Diane Keaton, Jessica Lange and Sissy Spacek, 10:30 p.m., Uris Hall.*
“Repo Man” (1985), directed by Alex Cox, with Emilio Estevez, Harry Dean Stanton and Tracey Walter, midnight, Stater Hall.*
“Student Film Benefit” (1987), short works by Cornell film students, 6:30 p.m., Uris Hall, admission $5.

Saturday, 5/16
“Animation Celebration,” 7:30 p.m., Stater Hall.*
“Crimes of the Heart,” 7:30 p.m., Uris Hall.*
“Repo Man,” 9:45 p.m. and midnight, Stater Hall.*
“Decline of the American Empire” (1986), directed by Denis Arcand, with Pierre Curzi, Remy Girand and Yves Jacques, 8 p.m., Uris Hall.*

Sunday, 5/17
“Decline of the American Empire,” 8 p.m., Uris Hall.*

Monday, 5/18
“To Have and Have Not” (1944), directed by Howard Hawks, with Humphrey Bogart and Lauren Bacall, 8 p.m., Uris Hall.*

Tuesday, 5/19
“Fahrenheit 451” (1966), directed by Francois Truffaut, with Julie Christie and Oskar Werner, 8 p.m., Uris Hall.*

Wednesday, 5/20
“Celine and Julie Go Boating” (1974), directed by Jacques Rivette, with Juliet Berto and Dominique Labourier, Uris Hall.*

Thursday, 5/21
“Bound for Glory” (1980), directed by Michael Apted, with Sting and Branden Margolis, 8 p.m., Uris Hall.*

Western Societies Program
“The Neglected Dimension of Language,” Laurence Wylie, French Department, Harvard University, May 17, 7-8 p.m.

“Techniques for Incorporating Non-verbal Communication into Teaching the French Language,” Laurence Wylie, French Department, Harvard University, May 16, 2-3 p.m.

MUSIC

Bound for Glory
Records from the Studio, May 17, Commons Coffeehouse, Anabel Taylor Hall.

Ithaca Opera and Johnson Museum Benefit
Savor the Arts benefit, an evening of visual, aural and culinary delights; the Ithaca Opera Company and the Johnson Museum's first joint benefit. Performances by the Ithaca Opera Workshop, the Cayuga Chamber Orchestra, Classical Quartet and Michelle Mine. Tickets are $15 in advance, $18 at the door and are available at the museum, Corry's Luggage, Rehop Records, Sophisticated Solos and William Shores. For reservations, call 272-0616 or for more information, call 255-6404.

RELIGION

Sage Chapel
Jerome M. Ziegler, dean of the College of Human Ecology, will preach at Sage Chapel on May 17 at 11 a.m. The topic of his sermon will be "Race and Culture in 2001."

Catholic
Mass, Every Saturday, 5 p.m., every Sunday, 9:30 and 11 a.m. and 5 p.m., Anabel Taylor Auditorium.
Daily masses: Monday through Friday, 12:30 p.m., Anabel Taylor Chapel.
Sacrament of Penance, Saturdays from 3 to 6 p.m., 0322 Anabel Taylor Hall, or by appointment, 255-4228.

Christian Science
Testimony Meeting, Every Thursday, 7 p.m. in the Anabel Taylor Founders Room.
Episcopal (Anglican)
Every Sunday, 9:30 a.m., Anabel Taylor Chapel.

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

Jewish
Morning Minyan: Young Israel House, 106 West Avenue, Call 272-5810.
Conservative/Egalitarian Services: Friday 5:30 p.m., Saturday 9:45 a.m., Anabel Taylor Founders Room.
Orthodox Sha'ahat Services: Friday evenings, Young Israel House, 106 West Avenue. Call 272-5810. Saturday, 9:15 a.m., Anabel Taylor Edwards Room.
Reform Services: Friday evenings 5-30 p.m., Anabel Taylor Chapel.

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

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

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

Zen Buddhism
Zazen meditation: every Thursday 5:10 p.m. in the Anabel Taylor Founders Room.

SEMINARS

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MISC

"Polyhedral Algorithms," Alexander Schrijver, University of Tilburg, the Netherlands, May 15, 12:20 p.m., 207 Uris Hall.

"Structure and Function in Adenosine Architecture," Roger Burnett, Department of Biochemistry and Molecular Biophysics, Columbia University, May 15, noon, 125 Riley-Robb Hall.

"Fleemons of neuropora crans," Michael Schottman, Department of Biology, Syracuse University, May 15, 4:30 p.m., 204 Stocking Hall.

"Patterns and Mechanisms of Gene Expression in Plants as Revealed by the Firefly Luciferase Gene," Stephen H. Howell, Department of Biology, University of California, San Diego, May 15, 7 p.m., 3 Speech Thompson Auditorium.

"The Evolution of Moxth Sex Phenomena," Wendell L. Roofolds, Department of Entomology, Geneva Experiment Station, May 20, 2 p.m., James Law Auditorium, Schuman Hall.

"The Entomopathogenic Fungus Erysiphe conica and the facators related to its infectivity into the adult mosquito Aedes argyrophe," Esteban L. Cuebas-Inclen, graduate student, Department of Entomology, May 18, 4 p.m., A006 Morrison Room, Cornell-Mudd halls.

"Chemical Reactions in Turbulent Flows," J. Mathieu, Ecole Central de Lyon, France, May 19, 1 p.m., 262 Grumman Hall.

"The Early Stages of the Plant-Rhizobium Symbiosis," Sharon Long, Department of BioSciences, Stanford University, May 21, 4:30 p.m., A204 Stocking Hall.

"Clinical Pharmacokinetics and Aminoglycosides in Renal Disease," Jor Rizk, Department of Anatomy, Physiological Sciences and Radiology, School of Veterinary Medicine, North Carolina State University, May 18, 4:30 p.m., Pharmacology Library, D101, Schuman Hall.

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Job Opportunities

In compliance with the Immigration and Reform Act of 1986, Cornell University is now required to check the identity and employment eligibility of all new hires. Effective June 1, 1986, if you accept a position, you must document on or before your first day of work that you indicate your identity and employment eligibility; for example, a state issued driver’s license and a birth certificate. For more information, contact Staffing Services, 552-2526.

Administration and Professional

Minimum salaries listed are for on-the-job positions.

ADMINISTRATIVE MANAGER (PC175) Human Resources
In consultation with chairmen, develop, promote, and implement human resource programs. Req.: BA or equiv. prof. & 3 yr. rel. exp. in personnel assessment, training, or employment. Send cover letter & resume to Judith Pulkinen by 5/22.

TEACHING SUPPORT SPECIALIST (PT176) ILR-Stat. & Soc. Statistics
Supporting teaching activities. Develop software & perform statistical analysis using SAS software & workstation. Send cover letter & resume to Judith Pulkinen by 5/22.

TECHNICAL CONSULTANT III (PT811) Theory Center
Support graphics applications running on mainframe computers; assist researchers using CNSF. Req.: MS in math., computer science, statistics, or related. Send cover letter & resume to Cynthia Smithbower by 5/22.

DIRECTOR, FINANCE & ADMINISTRATION (GR2I) College of Veterinary Medicine
Oversee academic and administrative activities. Req.: BS in a fin. or acc. related area. Prof. exp. in a fin. acctg. or fin. mgmt. Must have supervisory experience. Send cover letter & resume to Cynthia Smithbower by 5/22.

MANAGER, DIRECT MAIL (PC133) University Advancement
Respons. for planning & carrying out real mail campaign for 500k letters to donors, alumni, & others. Send cover letter & resume to Cynthia Smithbower by 5/22.

MANAGER, TESTING SERVICES (PC140) Counseling & Dev.
Serves as the University's 503, 504 Coordinator & tester for mainframe computers. Req.: Ed. or exp. in dealing with a wide range of disabilities & special accommodations. Exp. in a central testing area of a major university. Send cover letter & resume to Cynthia Smithbower by 5/22.

COORDINATOR FOR DISABLED & VETERANS (PC152) Computing Services
Coordination & development of computer programs. Send cover letter & resume to Cynthia Smithbower by 5/22.

TEACHING SUPPORT SPECIALIST III (PC114) Theory Center
Support graphics applications running on mainframe computers; assist researchers using CNSF. Req.: MS in math., computer science, statistics, or related. Send cover letter & resume to Cynthia Smithbower by 5/22.

APPLICATIONS PROGRAMMER/ANALYST (PC133) VAX
Support graphics applications running on mainframe computers; assist researchers using CNSF. Req.: MS in math., computer science, statistics, or related. Send cover letter & resume to Cynthia Smithbower by 5/22.

TECHNICAL CONSULTANT III (PT811) Theory Center
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APPLICATIONS PROGRAMMER/ANALYST (PC133) VAX
Support graphics applications running on mainframe computers; assist researchers using CNSF. Req.: MS in math., computer science, statistics, or related. Send cover letter & resume to Cynthia Smithbower by 5/22.

TECHNICAL CONSULTANT III (PT811) Theory Center
Support graphics applications running on mainframe computers; assist researchers using CNSF. Req.: MS in math., computer science, statistics, or related. Send cover letter & resume to Cynthia Smithbower by 5/22.

DIRECTOR, FINANCE & ADMINISTRATION (GR2I) College of Veterinary Medicine
Oversee academic and administrative activities. Req.: BS in a fin. or acc. related area. Prof. exp. in a fin. acctg. or fin. mgmt. Must have supervisory experience. Send cover letter & resume to Cynthia Smithbower by 5/22.

MANAGER, TESTING SERVICES (PC140) Counseling & Dev.
Serves as the University's 503, 504 Coordinator & tester for mainframe computers. Req.: Ed. or exp. in dealing with a wide range of disabilities & special accommodations. Exp. in a central testing area of a major university. Send cover letter & resume to Cynthia Smithbower by 5/22.

COORDINATOR FOR DISABLED & VETERANS (PC152) Computing Services
Coordination & development of computer programs. Send cover letter & resume to Cynthia Smithbower by 5/22.

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Planetary scientist Reid Thompson displays a supercomputer graphic of the planet Jupiter. Cornell scientists use the IBM 390–600 to produce three-dimensional maps of the Jovian Clouds to study the planet's weather.

**Job Opportunities (continued)**

**TECHNICAL, GR21 (T168) Food Science & Technology-Gen**

Assist in research on chem. & physical. of food & beverages. Conduct processing studies in pilot plant. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $519.52

**TECHNICAL, GR21 (T169) Biology Thompson School**

Conduct research in lab tech. position is currently occupied with factors involved in aging. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $519.52

**RESEARCH ASSISTANT, (T176) Bryon Thompson National**

Conduct research in lab tech. position is currently occupied with factors involved in aging. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $519.52

**TECHNICAL, GR21 (T143) Microbiology**

Conduct research in lab tech. position is currently occupied with factors involved in aging. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $519.52

**RESEARCH EQUIPMENT TECHNICIAN, GR20 (CI68) Veterinary**

Provide technical & admin. support for field & research program esp. in hist. & anat. of field study pets. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $457.00

**TECHNICAL, GR21 (T165) Entomology-Gen & Appl**

Conduct research in lab tech. position is currently occupied with factors involved in aging. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $457.00

**PART-TIME**

**STOCKKEEPER, GR16 (G172) Ornithology**

Provide support services to lab tech. dept., ships orders, enters data into computer, etc. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum full-time equivalent: $547.00

**TECHNICAL, GR17 (T177) Section of Living & Organismal**

Conduct research in lab tech. position is currently occupied with factors involved in aging. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $409.52

**COMPUTER OPERATOR, GR21 (T159) Com**

Operate equipment & maintain computer system. Perform computer tasks for printing, typesetting, data entry, etc. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $409.52

**CONFERENCE ROOM OPERATOR, GR20 (C0615)**

Responsibilities: Provide general care & make approp. log entries & ensure proper conduct & decorum. Send cover letter & resume to Judith Pulkinen by 5-22.

Minimum full-time equivalent: $497.00

**TECHNICAL, GR17 (T177) Section of Living & Organismal**

Conduct research in lab tech. position is currently occupied with factors involved in aging. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $409.52

**ADMINISTRATIVE AIDE, GR20 (C0615)**

Conduct research in lab tech. position is currently occupied with factors involved in aging. Send cover letter & resume to Judith Pulkinen by 5-22.

Minimum Basic Salary: $409.52

**EDUCATIONAL DEVELOPMENTAL OFFICER, GR15 (T172)**

Check all stages of print, help with manuscript preparation, etc. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum full-time equivalent: $475.00

**SYSTEMS PROGRAMMER II (PTI74, C149)**

Provide technical support in the design, development & implementation of microcomputer based systems. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum full-time equivalent: $475.00

**RESEARCH EQUIPMENT TECHNICIAN, GR20 (C168)**

Provide technical & admin. support for field & research program esp. in hist. & anat. of field study pets. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum Basic Salary: $457.00

**CRT OPERATOR, GR15 (T172) Veterinary**

Provide technical support for Surgical Pathology & Veterinary Medicine dept. Send cover letter & resume to Judi Pulkinen by 5-22.

Minimum full-time equivalent: $475.00

**SYSTEMS PROGRAMMER II (PTI74, C149)**

Provide technical support in the design, development & implementation of microcomputer based systems. Send cover letter & resume to Judi Pulkinen by 5-22.

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**SPORTS**

The men's lacrosse team — this year's Ivy League champion — has been seeded second in the NCAA Division 1 Men's Lacrosse Championships. The team, which finished with an 11-0 regular season record, received one of four first-round byes in the tournament, along with Maryland, Syracuse and Johns Hopkins. Cornell will face the winner of Wednesday's Army-Adelphi contest on Sunday afternoon at Schoellkopf.

**Baseball**

The baseball team won four of seven games last week, including a split with EIBL rival Army. The team swept a double-header at Oneonta, 6-0 and 10-4. On Wednesday, the team split a double with Army, winning 6-1 and losing 4-3. In games against West Chester Saturday and Sunday, the Statlers took three of five games.

**Soccer**

Seven thefts involving losses of $3,111 in cash and valuables were reported on campus during the period May 4 through 10, according to the morning reports of the Department of Public Safety. The thefts included four bicycles worth $380 and $430 in cash and valuables taken from four wallets and a purse.

**Fencing**

Three students and a staff member were found guilty by a university hearing board May 8 for disrupting a Nov. 16, 1986 speech by Rabbi Meir Kahane. The university hearing board is comprised of students, faculty, and staff.

**Golf**

The golf team finished seventh out of 13 teams with a 653 total at the Northeastern Classic last Sunday and Monday and took fifth place out of nine teams with a 340 team score at the Rochester Invitational last Friday. The linksmen concluded their 1987 campaign the next Friday by tackling the Oak Hill East Course in Rochester. The University of Rochester won the invitational.

**Volleyball**

Three players were charged with disorderly conduct.

**Rowing**

Cornell lost two, 5-1 and 8-3, and Wednesday, the team split a double with Army.

**Sailing**

The varsity eight mustered a 653 total at the Northeastern Classic last Sunday and Monday and took fifth place in the petite section of the Rules for the Maintenance of the Educational Environment. The team were charged with "interfering with the lawful exercise of free speech and failing to comply with an order to stop disrupting Kahane's speech."