

Cornell Chronicle

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The Robison York State Herb Garden, a popular spot in the summer.

What's Showing Them the Way to Go Home?

Bases of Animal Navigation Summer Lecture Topic

Compared to homing pigeons or monarch butterflies or Pacific salmon with their remarkable ability to travel great distances without getting lost, humans might as well be going around blindfolded. And sometimes they are.

Experiments on the sensory bases of animal navigation will be discussed during the fourth of the six 1981 Cornell Summer Lectures when zoologist Charles Walcott explores "Animal Navigation: How Birds, Bees, Beasts and Humans Find Their Way." Scheduled for 8:15 p.m. Wednesday, July 22 in Alice Statler Auditorium, the lecture is open to the general public at no charge.

"Animal navigation is a very old biological question that has intrigued people for hundreds if not thousands of years. We know a lot about it but we still don't know what cues the animals use to find their way," says Walcott, the recently-named executive director of the Cornell Laboratory of Ornithology and a researcher who has supplied one of the ideas about how homing pigeons use the Earth's magnetic field to navigate.

While serving as a professor of

neurobiology and behavior at the State University of New York at Stony Brook, Walcott discovered concentrations of the magnetic material, magnetite, in the heads of homing pigeons. The magnetite may help the birds orient themselves using the magnetic field of the Earth. But the picture is not as simple as that, and most researchers including Walcott now believe that animals use a combination of senses to find their way.

"We know pigeons use the sun for a compass," according to Walcott, "but if you take the sun away, they're still able to navigate, which is a good thing if they live in Ithaca. They seem to use the Earth's magnetic field as a sort of backup

compass system, but a compass isn't enough. A compass just tells where north, south, east and west are. It doesn't tell you which direction you came from home. There must be something else, which we call position finding."

Olfaction — the use of the sense of smell — seems to help some animals, the zoologist notes. "Salmon go out in the middle of the ocean to feed, then come back to the same gravel bed in the same stream where they were hatched. We know they're using olfaction, that they're familiar with the odor of the water over that gravel bed, but how on earth do they find the Columbia River when they're out in the middle of the Pacific?"

Also to be discussed during the Wednesday lecture will be the enormous journeys made by certain insects. "The monarch butterfly that you see in this area at this season is laying eggs," Walcott observes, "and the butterflies that eventually hatch from those eggs are going to fly all the way to a particular patch of woods in Mexico where they'll spend the winter clustered on a tree. Then they will fly back again next spring and a few of them may even reach Ithaca to lay eggs. There is a huge mortality rate, but a few of them make it or there wouldn't be any butterflies."

Walcott will begin his slide-illustrated presentation by describing a series of unusual human experiments that must have left the bees and birds scratching their heads in wonder. British zoologist Robin Baker has been trying to show that people — if blindfolded and transported along a circuitous route in buses with covered windows — can tell which way is home. Ever since the original experiments appeared to indicate that humans have a homing sense, the test has been

tried again and again, but with mixed results.

"I'm not sure humans have much navigational ability," Walcott says. "When Baker came over to this country he did a series of experiments at Princeton and wasn't able to repeat anything that looked very impressive. He then came up to Cornell and did it again and got data that looked fairly promising."

"It's really an open question as to whether or not people have navigational ability," notes Walcott, a professor of neurobiology and behavior in Cornell's Division of Biological Sciences. "Baker claims that if you put magnets on people or put coils around their heads with current flowing through so they have a magnetic field, then they can't do it. But who knows?"

Walcott holds a Ph.D. in zoology from Cornell and has taught at Harvard, Tufts, and Cornell as well as at Stony Brook where he was chairman of the Department of Cellular and Comparative Biology. In addition to his extensive research with homing pigeons, he has studied the behavior of spiders and has

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Publication Schedule

The last Chronicle of the summer schedule will be published next week, Thursday, July 23. Publication for the fall term will begin Thursday, Aug. 20, then resume a regular weekly schedule again on Thursday, Sept. 3. Items concerning events between July 23 and Aug. 20 should be turned in at the Chronicle office, 110 Day Hall, by tomorrow, Friday, July 17.



PIANIST HOWARD KARP

Pianist Howard Karp to Be Soloist For Third Summer Session Concert

Pianist Howard Karp will appear as soloist in the third concert of the Cornell Summer Session series at 8:15 p.m. Monday, July 20. Tickets for his recital, which will be presented in the air-conditioned Alice Statler Auditorium, will be available at the door.

For his program Karp has selected Impromptus in B flat Major and F minor, Opus 142 by Franz Schubert, three Mazurkas, Opus 56 by Frederic Chopin, the Second Sonata, Opus 21 by Karol Szymanowski and two works by Franz Liszt: Sonetto 104 del Petrarca and Au bord d'une source. Szymanowski (1882-1937), considered Poland's leading composer after Chopin, contributed a rich legacy of multi-faceted composition during the first third of the 20th century, including three large-scale sonatas. The first performances of

the Second Sonata, which Karp will play Monday, were given in 1911-12 by Szymanowski's compatriot, friend and champion, Artur Schnabel.

Karp was born in Chicago and received his early musical training there with Isadore Buchhalter and Felix Borowski. A graduate of the Oberlin Conservatory and the Juilliard School of Music, he studied with Jack Radunsky and Rosina Lhevinne. Awarded a Fulbright Grant for study in Vienna, he worked with Grete Hinterhofer and attended Wilhelm Kempff's Beethoven master classes in Italy.

Karp has given numerous solo and chamber music recitals in this country and in Europe and has appeared as soloist with the Amsterdam Philharmonic, the Hague Residentz and the Minnesota Orchestra. In addition, he has made recordings

for West German and Dutch radio. He often performs in two-piano concerts with his wife Frances and in sonata recitals with his son Parry, who is cellist of the Pro Arte Quartet.

Before joining the faculty at the University of Wisconsin, Madison, in 1972, he taught at the Universities of Kentucky and Illinois. Recently, he performed at the Festival of the American Liszt Society, and he will take part in the Maryland Piano Festival later this summer.

Physiology Symposium To Be Here July 21-24

The Section of Physiology of the Division of Biological Sciences, in cooperation with the Colleges of Agriculture and Life Sciences and Veterinary Medicine, will sponsor a symposium entitled Physiology: The Next Decade, July 21 to 24 on the Ithaca campus.

Subtitled Functional Regulation at the Cellular and Molecular Levels, the symposium will highlight some of the outstanding achievements of the 1970s and focus on direction and expectations for the 1980s.

The scope of the symposium is deliberately broad, according to Dr. Robert A. Corradino, chairman of the symposium committee, and will encompass the cellular and molecular bases of hormone action, cell proliferation and differentiation, neuro-endocrine function and epithelial transport. Twenty-eight distinguished scientists, who have been responsible for some of the major advances of the last decade and whose work exemplifies the utility of broad interdisciplinary approaches, have been selected to speak on the topics.

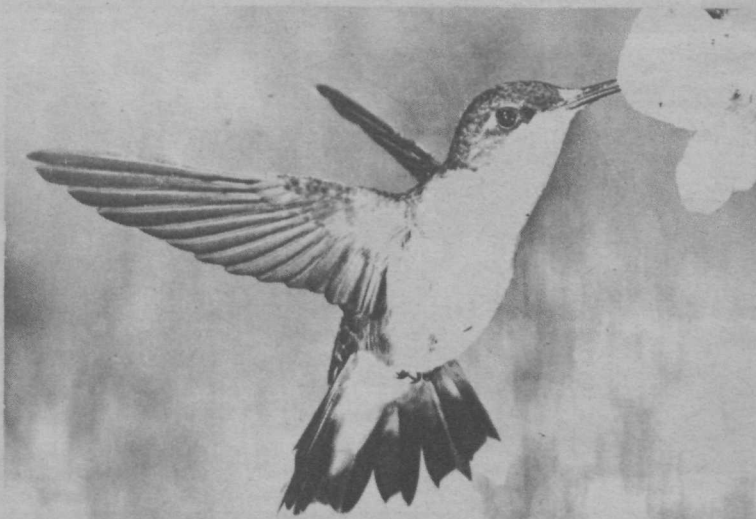
Among the speakers will be Dr. Paul Greengard, who was recently elected an A.D. White Professor-at-Large, and Robert Holley, who did his Nobel Prize-winning research at Cornell. Round table discussions will aid in the synthesis of new concepts, outline problems and outlooks, and propose potentially useful new approaches and biomedical applications.

The scientific program will be held in the Statler Auditorium and is open to Cornell faculty, staff and graduate students at no charge.

The Section of Physiology has been in existence for two years and consists of physiologists of the former Department of Physical Biology and joint appointees from most of the other sections of the division. In its short life, the Section of Physiology has completely revised the physiology curriculum for both undergraduate and graduate students, developed two new core course offerings.

For further information on the Symposium and copies of the Scientific program, contact Dr. Robert A. Corradino at 256-7626.

New Ornithology Director is Lecturer



Flying without a map, ruby-throated hummingbirds manage to migrate thousands of miles to South America each year, then return to Ithaca. Photo by Michael Hopiak, Laboratory of Ornithology.

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worked with students studying the behavior of wolves, dolphins and right whales. Walcott has been a photographer, producer, director and consultant for natural history television programs such as "Discovery," "Exploring Nature," and "NOVA" and most recently served as director for scientific content in the Children's Television Workshop series, "3, 2, 1 Contact."

In the July 29 Summer Series Lecture, Peggy Haine and the Low-down Alligator Jass Band will present "Hot Jazz: Sporty, Bawdy, Rowdy Beginning of the American Art." Syracuse University Professor of Anthropology Aghananda Bharati will lecture Aug. 5 on "India's Conquest of the West: Gurus, Yogis and their American Converts in the '80s." All lectures are at 8:15 p.m. in Alice Statler Auditorium and are open free of charge to the general public.

Jobs

The following job openings are new this week. For information on vacant positions listed in previous issues of the Chronicle, contact Personnel Staffing Services, 130 Day Hall. Cornell is an affirmative action employer.

Administrative/Professional
Director, External Affairs, CP6 (Arch, Art, and Planning)
Chief of Maintenance, CP6 (Maintenance & Service Operations)
Estimator I, CP3 (Maintenance & Service Operations)
Area Coordinator for Residence Staff/Training & Program Dev., CP5 (Residence Life)
Technical Service Manager, CP4 (Co-operative Extension Admin.)
Research Support Specialist I, CP3 (Natural Resources)
Budget Analyst I, CP2 (ILR - New York City)
Clerical
Administrative Aide (Maintenance & Service Operations)
Administrative Aide, GR21 (University Development)
Library Aide, GR20 (NYSSILR-MP Catherwood Library)
Secretary, GR20 (ILR - New York City)

Secretary, GR18 (Investment Office)
Secretary, GR18 (University Library - Uris)
Accounts Assistant, GR19 (ILR)
Office Asst., GR19 (Agriculture Economics)
Accts. Asst., GR19 (Finance & Business Office-Payroll)
Office Assistant, GR18 (Physiology)
Secretary, GR18 (School of Hotel Administration)
Word Proc. Opr., GR18 (Purchasing)
Library Aide, GR18 (Univ. Library-Catalog/Olin)
Secretary, GR18 (Dean's Office, CALS. Dev. & Alumni Affairs)
Secretary, GR16 (ILR School)
Service/Maintenance
University Service Officer, GR20-21 (Public Safety)
Baker, SO23 (Cornell Dining)
Laundry Attendant, SO15 (Phys. Ed. & Athletics)
Materials Handler, SO18 (Cornell Dining)
Short Order Cook, SO18 (Cornell Dining)
Food Service Worker, SO17 (Cornell Dining)
Cashier, GR15 (Cornell Dining)
Custodian, SO16 (Buildings & Grounds Care)
Technical
Technician, GR19 (Psychology)

Computer Operator I, GR20 (Cornell Computer Services)
Lab. Technician-Bioregulant Chemicals Prog. (Contact Boyce Thompson Institute)
Part-Time
Cashier, GR15 (Cornell Dining)
Accts. Asst., GR18 (Office of the Bursar)
Editorial Assistant, GR18 (School of Hotel Administration)
Office Asst., GR18 (Sales Univ. Press)
Library Aide, GR17 (University Library - Music)
Office Assistant, GR15 (Learning Skills Center-COSEP)
Academic
Professor of Ag. Economics, Dairy Marketing, rank open (Agricultural Economics)
Marketing, professional position, tenure track, 9 mos. (School of Hotel Admin.)
Lecturer, part-time temporary (Sch. of Electrical Eng.)
Teaching Associate, part-time temporary (Sch. of Electrical Eng.)
Senior Extension Associate I, CA7 (ILR, Albany, N.Y. Office)
Temporary
Temp. Key Punch Operator T-2 (Part-time) (Ag. Economics)
Temp. Office Asst. T-1 (Part-time) (Dept. of Clinical Science)

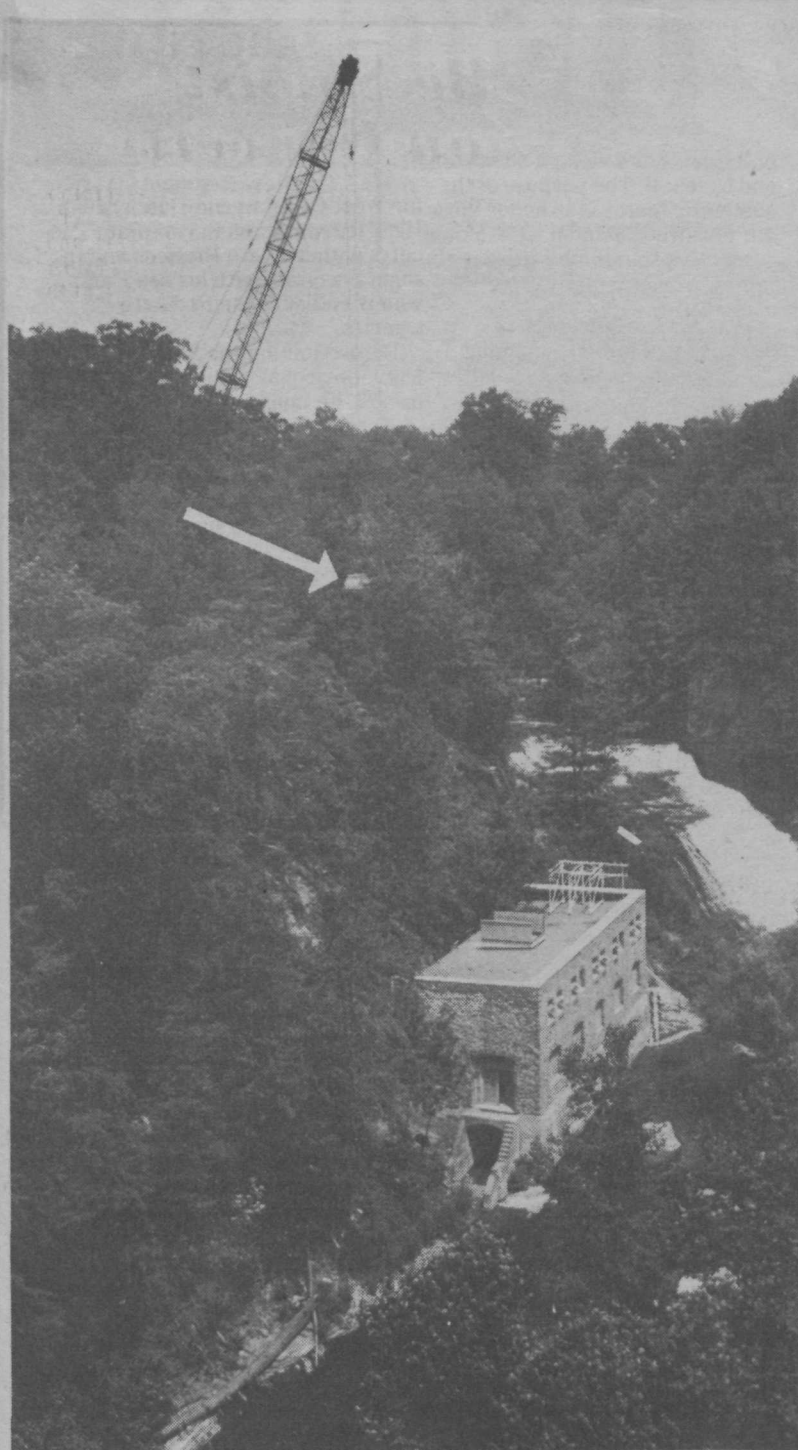
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A crane on the edge of Fall Creek gorge lowers one of two new turbines (arrow) into Cornell's refurbished hydroelectric plant. Built in 1904, the facility will be capable of generating as much as 7 million kilowatt hours of power per year when it resumes operation in early October.

Sponsored Programs

(The Office of Sponsored Programs, 123 Day Hall, 6-5014, wishes to emphasize that the information in this column is intended for post-doctoral research unless otherwise indicated)

DOCTORAL DISSERTATION GRANTS

The Social Science Research Council (SSRC) has announced a September 1 deadline for proposals to support doctoral dissertation research in fields of study which relate to employment and training (e.g., economics, sociology, social work, psychology, education).

The awards provide up to \$10,000 for stipend support, clerical assistance, travel, communication, computer, other materials, supplies and indirect costs.

To receive application information, please contact Joseph Epstein of SSRC at area code 202-667-8884.

NSF PROGRAMS IN INFORMATION SCIENCE AND TECHNOLOGY

The National Science Foundation has set an August 5, 1981 deadline date for proposals to its program of Special Research Initiation Awards for New Investigators in Information Science and Technology. Eligibility is limited to individuals who have received their doctorate within the last five years. Also

available are grants to all faculty in information science and technology, and information impact.

The goals of these programs are to increase understanding of the properties and structure information and information of transfer, to contribute to the store of scientific and technical knowledge which can be applied in the design of information systems, and to improve understanding of the economic and other impacts of information science and technology.

Further information is available at the Office of Sponsored Programs, 123 Day Hall.

MARCONI INTERNATIONAL FELLOWSHIP

The Aspen Institute for Humanistic Studies invites nominations of individuals for the eighth Marconi International Fellowship in the fields of communication science and technology. The Marconi Council wishes the fellowship to be an anticipatory more than a retrospective award. Nominators should specify why they believe that the nominee has made innovative contributions to a field of research or technology of growing future significance.

Deadline: September 15, 1981.

Toxicology Institute Formed Will Use People from Many Units

An interdisciplinary center for collaborative research on poisonous substances, the Institute for Comparative and Environmental Toxicology, will be established here.

Authorized Tuesday by the Executive Committee of the Cornell Board of Trustees at a meeting in New York City, the new institute has been given the mission of informing the general public, government agencies, industry and consumer groups on matters relating to environmental toxicology.

From its headquarters in Ithaca, the institute will draw on the expertise of faculty members and other professionals in a number of Cornell units including the Colleges of Agriculture and Life Science, Veterinary Medicine, Human Ecology, and Engineering; the Divisions of Biological Sciences and Nutritional Sciences; the Program on Science, Technology and Society; the Law School; and the affiliated

Boyce Thompson Institute for Plant Research.

The new institute is expected to serve a range of functions, among them:

- To facilitate an active extension/public service program to insure an effective flow of toxicology information to the general public.

- To provide consultation and advice on environmental toxicology problems for local, state and federal government agencies, private industry and consumer groups.

- To stimulate and encourage faculty participation in collaborative research efforts in comparative and environmental toxicology, and to serve as a focal point to facilitate a more effective flow of information among those conducting independent research in toxicology.

- To assist in the development of graduate and undergraduate teaching programs in comparative

and environmental toxicology. The M.S. and Ph.D. level major graduate programs in environmental toxicology have been approved recently by the New York State Education Department and the Regents of the University of the State of New York.

In addition, plans call for the institute to inform faculty of emerging research opportunities and to provide advice for developing university policy on the safe use of toxic chemicals on the Cornell campus.

Administrative and operating expenses for the institute, which will begin operation Aug. 1, 1981, will be provided by the three colleges and by the Divisions of Biological Sciences and Nutritional Sciences. The director of the institute will be a Cornell faculty member to be appointed by the Board of Trustees.

Construction Projects Approved

Construction of animal science research and surgery facilities and additional renovations to Rockefeller and Goldwin Smith Halls have been approved by the Executive Committee of the University Board of Trustees.

Meeting Tuesday in New York City, the trustees approved the following projects:

- Construction of a large animal research and teaching unit for the Department of Animal Science of State College of Agriculture and Life Sciences. The \$1,050,000 facility

will be a 7,000-square foot addition to the green barns located south of Boyce Thompson Institute and east of Morrison Hall, and will contain laboratories, monitor rooms and support staff space.

Dairy cattle, sheep, goats, calves, ponies, swine and beef cattle can be accommodated in the new facility for intensive studies on physiological and biochemical aspects of reproduction, lactation, growth, digestion, pregnancy and nutrient utilization. The facility will enable the research and teaching efforts of

personnel in the Department of Animal Science to address problems of the livestock industry.

- Construction of a pole barn addition to an existing barn on the Reed Farm on Stevenson Road. The \$225,000 addition will include a surgery unit for dairy cattle reproductive physiology studies of the Department of Animal Science.

- Increasing funding of the Rockefeller and Goldwin Smith Halls renovation program from \$3,100,000 to \$3,193,250. The increased appropriation will cover completion of construction planned for the summer of 1981 and additional architectural and engineering services for future phases of the renovation program.

Stein Will Be a Vice Provost

Peter C. Stein, professor of physics, has been named a vice provost of the university on a half-time basis, for the 1981-82 academic year.

Appointed by the Executive Committee of the University Board of Trustees which met in New York City Tuesday, Stein, according to Provost W. Keith Kennedy, will "assist the university administration in reviewing a number of inter-college academic programs,

in assessing current use and needs of laboratory and teaching space, and in the implementation of the recently adopted appeals procedures for faculty who are not recommended for reappointment or promotion."

Stein, a member of the Cornell faculty since 1958, headed the faculty committee which designed the new appeals procedures after a year-long study of the issue.

Summary Journal of Trustee Actions

This summary journal for the meeting of the Executive Committee of the Board of Trustees of Cornell University in New York City Tuesday, July 14, 1981, does not include confidential items which came before the meeting or items on which separate articles are carried in this issue of Chronicle.

Actions and reports of the trustees included the following:

1. A report by President Frank Rhodes.

2. A report on the death of Trustee Emeritus John S. Knight in Akron, Ohio, June 16.

3. A report by University Counsel Walter J. Relihan Jr. on the State Senate confirmation of the Governor's appointment of Lillian Roberts as industrial commissioner of the State of New York. Thus, Mrs. Roberts becomes an ex officio member of the Board of Trustees.

4. Committee Chairman Charles T. Stewart reported on the makeup of a special committee to study the

structure and functioning of the Board of Trustees. Austin H. Kiplinger will be chairman of the committee, which also will include Donald F. Holcomb, Joseph P. King, Robert W. Purcell, William R. Robertson and Jean Way Schoonover.

5. Trustees approved a recommendation for budget requests for the statutory colleges.

6. The trustees gave approval for the administration to dispose of buildings on seven Cornell-owned properties either by demolition or removal. The buildings have deteriorated beyond reasonable repair and are surplus to the needs of the university. Addresses of the properties on which the buildings are located are 705 Dryden Rd., 753-755 Dryden Rd., 769 Dryden Rd., 152 Stevenson Rd., 30 Freese Rd., Upper Freese Rd. (no number), and 939 Warren Rd.

7. A report from the Buildings and Properties Committee by Trustee

Earl R. Flansburgh.

8. A report by Counsel Relihan on pending matters in litigation.

9. Trustees approved several personnel recommendations.

10. A report was presented concerning the receipt in May of a \$3.4 million grant from the National Science Foundation for continued support of the Materials Science Center.

11. Trustees confirmed the appointment of Michael L. Slive as director of athletics, effective July 1, succeeding Richard Schultz.

12. Trustees approved revisions to the ex officio membership of the Advisory Council for the School of Industrial and Labor Relations.

13. The administration was authorized to revise the language of the Cornell University Tax-Deferred Annuity Plan to allow employees to purchase supplemental tax-sheltered programs from carriers designated by the president, in addition to those now available through TIAA-CREF.

Brief Reports

Hotel School Plans Course in Pastries

A special course in pastries, desserts and breads designed for the home-kitchen entrepreneur as well as the professional chef will be given at the School of Hotel Administration July 27 through 31.

Part of the school's Professional Development Program, the highly intensive course will be taught by Jack Cameron from 8:30 a.m. to 4 p.m. for the five days. Cameron is an experienced pastry chef, having worked throughout central New York.

The only prerequisites needed for the course, according to Cameron, are interest and perseverance. There is a \$295 fee.

Cameron said "The Great All American Pastry Chef" course covers the techniques and principles needed to create an endless variety of delicious, distinctive pastries, breads and desserts.

"The specific areas covered in the lecture and laboratory will be: breads, rolls, pies, sweet dough pastries, pate choux, cakes and specialty desserts. The course is ideal for anyone who wants to learn how to make and merchandise specialty desserts profitably."

To register, see Ruth Devine in Room 137, Statler Hall. For further information call 256-4990.

Lecture Will Probe Communications Link

Which has done more to arouse working people, the alarm clock? Or, the intelligent word? The connections among communications,

time, and progress will be the basis of a free, public film-and-lecture program in Goldwin Smith D from 8 to 9:30 p.m. Tuesday, July 21. All are welcome.

M.D. Morris, a visiting professor in the Graduate School of Business and Public Administration, offers "The Wheel of Fortune," a film by James Burke of BBC-TV, produced by the University of California, San Diego. Morris will add comments on bridging the gap between society and technology, from his experience as communications consultant to industry and government, and an editor for John Wiley & Sons, Publishers.

Poultrymen Gather Here July 21-22

Some 200 poultry farmers and other representatives of the poultry industry in New York and neighboring states will be here for a two-day conference to learn about the latest developments affecting the industry.

"The 1981 New York State Poultrymen's Get-Together" will be staged in Morrison Hall, July 21-22. The event is sponsored jointly by Cornell Cooperative Extension, the department of poultry and avian sciences in the State College of Agriculture and Life Sciences, and the New York State Poultry Industry.

This year's program features more than a dozen talks ranging from protein levels for laying hens as related to energy and feed consumption, to maintaining proper laying house temperatures and air quality.

Medoff Named Head Tennis Coach

Steven L. Medoff, head women's and assistant men's tennis coach at the United States Military Academy for the past three years, has been named head tennis coach of both the men's and women's programs here.

The announcement was made by athletic director Dick Schultz. Medoff replaces Barbara Koch, who served as Big Red women's tennis coach for the last three years, and head soccer coach Jack Writer, who had coached the men's program since 1976 but will now dedicate his efforts entirely to soccer. In addition to coaching the men's and women's teams, Medoff will also be responsible for coordinating instruction at the Cornell indoor tennis bubble.

Schultz said Medoff "had tremendous success as a tennis coach at West Point, and has a great deal of experience as a tennis instructor."

Medoff, 25, coached the women's team at West Point to a 25-3 record in 1980-81, just its second year of varsity competition.

Pitcher Myers Gets Academic Honor

Greg Myers, pitcher on the Cornell baseball team, has been named to the second team of the College Sports Information Directors Academic All-America baseball team.

CoSIDA, with the cooperation of the NCAA, sponsors Academic All-America teams each year in foot-

ball, men's and women's basketball and baseball. The purpose of the academic teams is to honor those athletes who perform well in their respective sports while also maintaining high averages in the classroom.

Myers, a right-hander from Trumbull, Conn., who will begin his senior year at Cornell this fall, had an 8-1 record with a 1.74 ERA this past season while also maintaining a 3.4 grade point average as a mechanical engineering major in Cornell's College of Engineering. He completed every game he started in 1981 for the Big Red.

Evening of Russian Music Scheduled

The Summer Session Program will present an Evening of Russian Music at 8:15 p.m. Friday, July 17, in Barnes Hall. The performance is free and open to the public.

The program will feature excerpts from Russian opera based on classical literary texts, including Tchaikovsky's "Eugene Onegin" and "The Queen of Spades," Mussorgsky's "Boris Godunov," Dargomyzhsky's "Rusalka" and Prokofiev's "War & Peace."

Vocalists will be Tanya Stremlin, Kevin Moss, Caryl Emerson, and, in her last Ithaca performance, Lynn Sorenson. Pianists will be Ulrike Graf and Carole Ann Sheade. The program will be sung entirely in Russian, with texts and translations provided.

SAGE CHAPEL

CURW Counselor Will Give Talk

The Rev. Reginald D. McClain, who serves as a minority religious counselor for Cornell United Religious Work and is the pastor of the Calvary Baptist Church in Ithaca, will talk at the Sage Chapel Summer Session Service at 11 a.m. Sunday, July 19, at the chapel.

His topic will be "A Nation Under God."

Before coming to Ithaca in August 1976, The Rev. McClain served as pastor of the Mount Rose Baptist Church in Uniontown, Pa., and as executive director of the Fayette County Comprehensive Training Act Program.

He received his Bachelor of Arts degree in religious studies from Bethany College in Bethany, Okla., and his Bachelor of Theology degree from Pittsburgh Baptist Seminary.



People

Marvin I. Adleman has been elected professor of landscape architecture, effective July 1. On the Cornell faculty since 1972, he serves as coordinator of the landscape architecture program in the department of floriculture and ornamental horticulture of the State College of Agriculture and Life Sciences. Adleman has achieved national stature in the field of landscape architecture as a practitioner, teacher, and program administrator. He has been instrumental in developing Cornell's landscape architecture program into the number one rated program in the nation.

Frederick H. Buttel has been elected associate professor of rural sociology. A member of the faculty in the State College of Agriculture and Life Sciences since 1978, Buttel's specialty is in national and international agriculture and rural development, rural resource use, environmental and political sociology. The recipient of a three-year W.K. Kellogg Foundation Fellowship, Buttel is working on an interdisciplinary approach to the development of agriculture and rural policy in the U.S.

Kraig Adler has been elected professor of biology in the State College of Agriculture and Life Sciences. On the Cornell faculty since 1972, Adler is a member of the section of neurobiology and behavior in the

Division of Biological Sciences; he served as chairman of the section from 1976 to 1979. He teaches the highly popular introductory biology course for majors. Adler is recognized internationally for his research in animal orientation.

Russell E. MacDonald has been elected professor of biochemistry in the State College of Agriculture and Life Sciences. On the Cornell faculty since 1957, MacDonald is a member of the section of biochemistry, molecular and cell biology in the Division of Biological Sciences. He teaches courses in cell biology and biochemistry. MacDonald has recently discovered a new mechanism in a bacterium for converting sunlight directly into electrochemical energy. The process takes place without chlorophylls necessary for photosynthesis as in plants.

Geoffrey S.S. Ludford, professor in the Department of Theoretical and Applied Mechanics, will spend the 1981-83 academic year in West Germany under a Senior U.S. Scientist Award from the Alexander von Humboldt Foundation of the Federal Republic of Germany. He will do mathematical research relating to problems of energy efficiency and pollution of the internal combustion engine at universities in Aachen, Cologne and Freiberg. Also during his year away from Ithaca he will serve as Science Research Council Senior Visiting Fellow at Churchill

College, Cambridge University in England. Ludford joined the Cornell engineering faculty in 1961 as professor of applied mathematics. On past sabbaticals he has held Guggenheim, National Science Foundation Senior Postdoctoral and Fulbright-Hays Senior Fellowships.

W. Bruce Currie and **Larry E. Chase** have been elected associate professors of animal science with indefinite tenure. Both appointments are effective July 1. Currie and Chase are faculty members in the department of animal science of the State College of Agriculture and Life Sciences. Currie joined Cornell in 1978 and Chase in 1975. Recognized internationally as an animal physiologist, Currie has been involved in studies concerned with how physiological and biochemical factors regulate contraction of the uterus. Chase's primary responsibility has been the development of a dairy cattle nutrition program for Cornell Cooperative Extension.

Gary Kwiecinski, a Ph.D. candidate in zoology, has been selected by the American Society of Mammalogists as its Albert and Alma Shadle Fellow for 1981-82. This competitive fellowship, which recognizes outstanding achievement and carries an award of \$2,500, was based on his continuing studies of skeletal homeostasis and its regulation during pregnancy and lactation in little brown bats. Kwiecinski

is scheduled to present his completed work at the plenary session of the American Society of Mammalogists at its annual meeting to be held at Brigham Young University, Provo, Utah, in June 1982.

Associate professor of education **J. Lin Compton** has been awarded tenure. A specialist in community education and educational aspects of rural and agricultural development, Compton has been a member of the faculty in the State College of Agriculture and Life Sciences since 1979. Before that, he taught at North Carolina State University and was head of the department of education and culture at the International Institute of Rural Reconstruction in the Philippines. He also taught at Khon Kaen University in Thailand.

Vegetable crops specialist **James Russell Hicks** has been promoted to associate professor with indefinite tenure. An expert in postharvest physiology and in controlled atmosphere storage for vegetables in the state, Hicks has developed comprehensive research and Cooperative Extension programs. A member of the faculty in the department of vegetable crops of the State College of Agriculture and Life Sciences at Cornell since 1976, Hicks previously was a postharvest extension specialist at the University of Florida at Gainesville for five years.

Three agricultural economists have been promoted to associate professor with tenure. They are **David Blandford**, **Gene A. German**, and **Robert A. Milligan**, all in the State College of Agriculture and Life Sciences. Blandford is a specialist in international trade and agricultural policy, particularly in methods of analysis and the planning of agricultural commodity policies. A member of the Cornell faculty since 1975, Blandford previously was a lecturer at Manchester University, England. German's area of expertise is in food distribution and management. In addition to teaching courses in marketing and food industry management, German is responsible for the annual study, "Operating Results of Food Chains," which reports on the profitability and costs of the nation's food chains. Milligan is an expert in farm management and production economics, and conducts interdisciplinary research with faculty members in the departments of animal science, agronomy, and agricultural engineering. Involved in development and use of computerized decision aids, Milligan uses these aids to teach farm management principles to students, farmers, and agricultural agents for Cornell Cooperative Extension. He has been on the Cornell faculty since 1975.