

ANNUAL NEWSLETTER

Department of Entomology
University of Illinois
at Urbana-Champaign

1975

DEPARTMENTAL ROSTER, 1974-75

- Decker, George C. - Professor of Entomology, Emeritus
- Delcomyn, Fred - Assistant Professor of Entomology
- Fraenkel, Gottfried S. - Professor of Entomology, Emeritus
- Friedman, Stanley - Professor of Entomology
- Ghent, Arthur W. - Professor of Provisional Department of Ecology, Ethology and Evolution and Entomology
- Horsfall, William R. - Professor of Entomology
- Jaycox, Elbert R. - Professor of Apiculture, Depts. Horticulture and Entomology
- Kearns, Clyde W. - Professor of Entomology, Emeritus
- LaBerge, Wallace E. - Professor of Entomology and Taxonomist
- Larsen, Joseph R. - Professor and Head of Department; Physiology and Biophysics; Acting Director, School of Life Sciences
- Luckmann, William H. - Professor of Agricultural Entomology and Head, Section of Economic Entomology
- MacLeod, Ellis G. - Associate Professor of Entomology and Provisional Department of Genetics and Development
- Metcalf, Robert L. - Professor of Entomology
- Price, Peter W. - Assistant Professor of Entomology
- Stannard, Lewis J. - Professor of Agricultural Entomology and Taxonomist
- Sternburg, James G. - Professor of Entomology and Executive Secretary
- Waldbauer, Gilbert P. - Professor of Entomology and Agricultural Entomology
- Willis, Judith H. - Associate Professor of Entomology and Provisional Department of Genetics and Development

STAFF

Academic

Hollowell, Margaret - Res. Asst.
Lee, An-horng - Res. Assoc.
Lu, Po-Yung (Jim) - Res. Assoc.

Seligman, Morris - Res. Assoc.
Shively, Louise N. - Res. Asst.
Tegen, Penny M. - Res. Asst.

Nonacademic

Duvall, Eloise - NSLA III
Fisher, Mary - NSLA III
Fitzsimmons, James P. - Storekeeper II
McMillan, Bonnie S. - Clerk-Typist III
Millholin, E. Ruth - Principal Lab Tech.

Munnis, JoAnn A. - Clerk-Typist III
Plymire, Ruth A. - Admin. Secretary
Tegen, Alan R. - NSLA II
Wrisk, Lavella - Clerk-Steno III

STUDENTS

Coats, Susan
Farooqui, Mohammed
Farris, Marion
MariMutt, Jose
Polk, Carla

Redborg, Kurt
Saume, Fernando
Siddiqi, Mohammed
Sirisingh, Sathorn

Research Assistants

Ali, Syed
Au, Lam Alexander
Brown, Daniel
Chang, Caroline
Chen, Andrew
Cherry, Ron
Chio, Eddie
Chio, Li-chun
Evrard, Stephen

Harbach, Ralph
Hill, Thomas
Marlin, John
Novak, Robert
Sherrod, Dan
Turner, Lee Anne
Walton, Barbara
Yang, Maggie

Teaching Assistants

Adams, Cheryl
Anderson, Thomas
Baldwin, Elizabeth
Bouton, Carl
Edmunds, Nancy
Evans, David
Gerdes, Charles
Halbert, Susan
Jackai, Louis

Jeffords, Michael
Maier, Chris T.
Mathew, Malethu
Mayse, Mark
Melin, Brian
Mielenz, Susan
Toliver, Mike
Walker, William
Zaitlin, Linda

Trainees and Fellows

Gundersen, Ross - U of I Fellow
Kritsky, Gene - U of I Fellow
LeSar, Charles - T & F Waiver
McClure, Mark - USPH Trainee

Parker, Beulah - U of I Fellow
Strickman, Dan - U of I Fellow
Watson, Phillip - USPH Trainee

Students in Other Programs with Entomology Advisors

Daley, Darryl - Neurophysiology (Dr. Fred Delcomyn)
Roberts, Elaine - Cell Biology (Dr. Judith Willis)
Thompson, John - Ecology (Dr. Peter Price)

VISITORS TO THE DEPARTMENT - 1974-75

Dr. Andrew Beattie
Department of Biological Sciences
Northwestern University
Evanston, Illinois

Dr. Hal Caswell
Department of Zoology
Michigan State University
East Lansing, Michigan

Dr. Kenneth Christiansen
Department of Biology
Grinnell College
Grinnell, Iowa

Dr. Vincent Dethier
Department of Biology
Princeton University
Princeton, New Jersey

Dr. William Harvey
Department of Biology
Temple University
Philadelphia, Pennsylvania

Dr. Robert Lewis
Department of Entomology
Iowa State University
Ames, Iowa

Dr. Richard Pau
Oxford University
Oxford, England

Dr. Miriam Rothschild
University of London
London, England

Mr. Robert Sisson
Staff Photographer
National Geographic Society
Washington, D.C.

Dr. Julian Vincent
University of Reading
Reading, England

Dr. Jan Zdarek
Institute of Entomology
Czechoslovakia Academy of Sciences
Prague, Czechoslovakia

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As usual the editor would like to take the opportunity to thank all the girls in the office for their time, patience and willingness each year to make possible the fruition of our Newsletter. We note with significant sadness the loss of Judy Michael who has relocated in St. Louis where her husband took a position in the Ferguson recreation department. Judy was a member of the office staff in Entomology for over 7 years and has always been one of the major moving forces behind the organization of the Newsletter. Her expertise and presence will be greatly missed by all. We, however, are grateful for Ruth Plymire, our chief hauncho who looks after all of the nonacademic activities in the department and for our new staff members in the office, Bonnie McMillan and Jo Ann Munnis. We are grateful for all our nonacademic people who give of their time and talents unselfishly and make it possible to carry out the meaningful programs in entomology. We are particularly grateful to Jim Fitzsimmons who not only keeps our water bottles filled but looks after all of our needs and to Eloise Duvall who keeps all entomologists supplied with that most basic commodity of life -- "bugs." Also we would like to thank our graduate students, fellow colleagues, and all of you alumni who share your activities and interests with us each year.

MESSAGE FROM THE HEAD OF THE DEPARTMENT

Joseph R. Larsen

It's time to report on the stewardship of another year in entomology at Illinois. We are pleased to send our alumni, both those of long standing and those who have just joined the alumni ranks, the Newsletter with a brief synopsis of the Department and activities of your fellow colleagues.

We look especially to our alumni this year as we prepare for a centennial celebration in the Department. Entomology courses have been offered at the University of Illinois since 1869, the year after the university was founded. In 1885, S.A. Forbes, upon agreement that he might continue as state entomologist and curator of the Illinois Natural History Survey, moved his office from Normal, Illinois and assumed duties as the first professor of zoology and entomology at the University of Illinois in Urbana. Eventually in 1909 the Department of Entomology was separately organized from Zoology in the College of Liberal Arts and Sciences. We feel that in conjunction with the bicentennial of our nation, there would be nothing more fitting than to have a centennial celebration of entomology at Illinois. We are, therefore, planning during the academic year 1976-77 to have such an event. We would like to bring back our distinguished alumni to participate. We are tentatively planning to have a two-day affair marking the growth and excellence in entomology at Illinois.

We ask you to tentatively mark your calendars for the academic year of 1976-77 to share with us in this centennial event. We will dedicate the meeting to the honor of S.A. Forbes, who stands at the head of a long line of illustrious leaders in the science of entomology at Illinois. We feel that it will be a most significant time for a centennial celebration. The International Congress of Entomology will be held in Washington D.C. in the fall of 1976 and it is hoped that we might in some way coincide with this event to take advantage of visiting scientists who will be in the country at that time. We hope that many of you would plan to return and join with us to make this a memorable occasion.

As I have been gathering information for the centennial, I find that over 200 Ph.D.s in entomology have been granted by the University of Illinois since 1912, 150 M.S. degrees since 1917, and of these advanced degrees, approximately 50 have been conferred on foreign students.

We are asking for your input and suggestions as we make our plans. We feel that in order for this to be a success it must have the cooperation and participation of our alumni as well as our fellow colleagues, current faculty and graduate students in the Department.

The state of the Department at the end of the year is excellent. We continue to maintain our stature on the national scene. We are delighted with the success of the new pest management program and now have more applicants than we can handle. Drs. Metcalf, Luckmann and others have been responsible for managing this program and it is obvious that there are going to be many positions in the job market for students at the Master's level who can go out as a pest management specialist.

We are saddened this year by the passing of Dr. Leigh Chadwick whose memorial is a part of this newsletter. Chad had a great influence on the Department during his tenure as head.

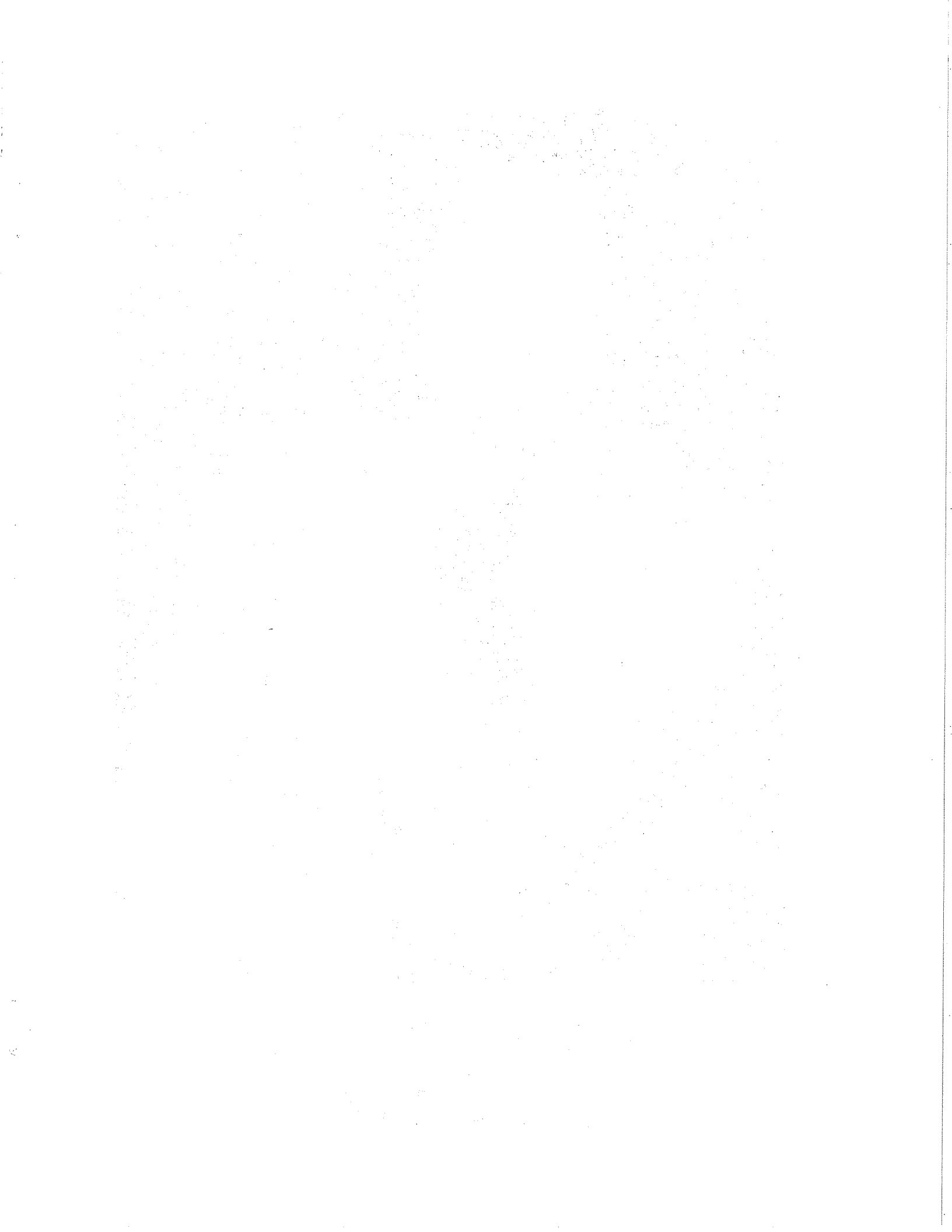
We are pleased with the number of applicants of high quality for the coming year. We are also delighted with last year's entering class (probably the largest group of graduate students in some time). We do anticipate a smaller entering class in the fall of 1975. The intellectual experience and training they receive at Illinois will continue to prepare them for degrees in the field of entomology. With a continued constriction of the job market the level of graduate students must be commensurate with the availability of positions. We are fortunate in that most of our graduates have found positions and continue to make significant contributions in their scientific careers. We hope that you will continue to share with your undergraduates the opportunity in entomology at Illinois and that we will continue to receive students with your encouragement to come here for their training. In a recent evaluation of former graduates from this Department, we find that we have justification in the pride we hold for our students and the contribution they have made in academic institutions, industry, and government agencies at all levels. We conclude that the Department maintains its viability, continues to move forward and keep abreast of recent developments and remains one of the strongest departments of entomology in the country.

We continue to look forward each year to the alumni breakfast where we have the opportunity to meet with you socially and renew old friendships and enjoy current fellowship. We hope to see many of you at the National Meetings in New Orleans.

ACTIVITIES OF THE SCHOOL OF LIFE SCIENCES

The School of Life Sciences has continued for an additional year under the direction of Joseph R. Larsen as Acting Director. This continues to be an arduous and time consuming responsibility as both Director and Head of the Department. However, I feel the School has continued to move forward and carry out its responsibility in the initiation of new programs and correlating the activities of the various departments within the school. The School of Basic Medical Sciences at Urbana continues to grow and have a vital interaction with the School of Life Sciences. Those people involved in pre-clinical instruction in SBMS have joint appointments in the various departments of the School. Also the Medical School has approved the establishment of the clinical phase so there will now be a full-fledged medical school on the Champaign-Urbana campus with both basic medical and clinical instruction.

While enrollment at the University of Illinois continues to show some decline in the area of the humanities, social studies, etc., applications in the life science areas continue to exceed our capacity to contain all the students. There are large numbers of students in medical, dental, and health related careers. We received a record entering freshman class in the life science areas in the fall of 1974. We are in a position of having to restrict enrollment of students because of the tremendous pressures in the life science areas. In spite of these overwhelming numbers, the departments in the School maintain quality education and we have developed a number of new courses and continually look at new ways to present and maintain quality education. Also we continue to devise methods to cope with the large number of students and develop teaching programs that are meaningful to undergraduates at this institution. While a permanent director of the School of Life Sciences has not yet been found, the Search Committee continues to attempt to identify an individual who might soon take over the full-time responsibilities. The School continues to remain a viable administrative unit in bringing together the diverse interests of all various departments and interdisciplinary programs within its domain. Entomology as a department within the School looks forward to continued support of this organization and interaction with our sister departments in SOLS.



IN MEMORIAM OF DR. LEIGH E. CHADWICK

With this issue of the Entomology Newsletter we regretfully note the recent passing of Dr. Leigh Chadwick. Dr. Chadwick, or Chad as he was affectionately known by his colleagues for many years, served as Head of the Department of Entomology from 1956 to 1963. Due to reasons of health, he retired from the staff of the Department in June 1966. Chad was born August 9, 1904, in Washington D.C. He received his early education at Swarthmore Preparatory School in Swarthmore, Pennsylvania. He then attended Haverford College where he received his B.S. in 1925 in the fields of German and Chemistry. Upon graduation from Haverford he was nominated to Phi Beta Kappa. Chad went abroad for a year to study at Philips University in Marburg, Germany. Upon his return from Germany he entered the University of Pennsylvania where he received a Master's Degree in German. During the period of 1925-1927 Chad taught foreign languages at various prep schools. From 1929-1934 he taught French and German at his alma mater, Haverford College. In 1936 he entered Harvard University where he received a Master's Degree and subsequently the Ph.D. in biological sciences in 1939. After graduation from Harvard, Chad taught biology at Pueblo Junior College in Colorado for two years. He then moved to Rochester, New York, where he taught physiology at the University of Rochester School of Medicine. In 1944 Chad moved to Baltimore and assumed the position as Chief of the Entomology Branch of the Chemical Corps Medical Research Directorate. During this period of tenure with the Chemical Corps, he was responsible for directing a large share of the research effort in entomology during the difficult years of the second world war. He was also responsible for maintaining a pleasant research atmosphere for a large number of scientists who passed through the Chemical Corps labs as part of their tour of duty for Uncle Sam.

Chad was appointed Professor and Head of the Department of Entomology at the University of Illinois in July 1956. During this period of time while he served as Head a great deal of progress was realized. A large part of the department was able to move into new quarters in Morrill Hall. The department was increased to 10 faculty members during his tenure of office, many of whom hold joint appointments with the Illinois Natural History Survey, Department of Horticulture, and Physiology. Graduate student enrollment increased to some 50 students under his direction. Many new research facilities and major equipment items were added to the resources of the department. Much of this progress began when Dr. Chadwick was Head of the Department and we will be greatly indebted to his foresight, judgment, and effort.

In September 1963, Chad asked to be relieved of administrative duties to devote full time to his research and teaching. His major areas of research while here at the University of Illinois were studies on insect cholinesterase and the comparative morphology of insect musculature. He was the author or co-author of over 60 scientific articles. During his lifetime Dr. Chadwick was honored with membership in the American Academy of Arts and Sciences. He was also member of a number of scientific and honorary societies, the American Association for the Advancement of Science, the American Association of University Professors, American Physiological Society, American Society of Zoologists, Entomological Society of America, Harvard Chapter of Sigma Xi, New York Academy of Science, Society of General Physiology and Phi Beta Kappa. Dr. Chadwick was a distinguished scientist and scholar and his loss will be noted by the

We, of the Entomology Department, would like to extend our sympathy to Mrs. Chadwick and to express our sincere appreciation for Chad's years of service and dedication to his profession. We know that all of you as alums and former graduate students would like to join us in this expression of appreciation as we reflect with sadness upon the passing of Dr. Chadwick.

BALDUF AWARD

The Balduf Award Committee has extended a call for papers for 1974-75. As yet a decision has not been made to present the Balduf Award for the current academic year. I would like to once again extend to all of you an invitation to participate in the Balduf Award fund which is being handled through the Illinois foundation. As you know, this award is established to recognize an outstanding graduate student in the department. In order for it to continue as a self-perpetuating award, we again make an earnest plea for contributions to the basic stipend. As I've indicated to you in past newsletters, if the award can reach the level of \$2,000 the prize of \$100 given each year can be generated out of interest. We are grateful and extend our thanks to those of you who have so generously contributed to the Balduf Award. We are still in need of raising some additional money. I ask that each of you might share with us \$5 or \$10 to be added to the award so that it might be maintained on a perpetuating basis. Please send your contribution to the Illinois foundation at the University of Illinois and indicate that it be earmarked specifically for the Balduf Award. If we could all participate at \$5 or \$10 I could then eliminate this request from the Newsletter and share with you the news that the fund is now completely established on a perpetuating basis.

ENTOMOLOGY GRADUATE STUDENT ASSOCIATION

Officers

Many enthusiastic individuals vied for the EGSA offices during the most recent elections. When the dust settled, there was a healthy balance of new and old graduate students holding positions. The officers were: President - Chris Maier; Vice President - Mark Mayse; Faculty Representative - Dan Brown; Secretary - Dave Evans; Treasurer - Liz Baldwin; and Floor Representatives - Liz Baldwin, Dave Evans, Ross Gundersen, Mike Jeffords, and Gene Kritsky. Naturally the bylaws were updated (as you probably already guessed from the increased number of officers).

The EGSA continued in its efforts to improve the communication between students and between faculty and students. Our vehicles for accomplishing this goal were the newsletter, the course evaluations, the pre-seminary coffee hour, and meeting(s) with Dr. Larsen. The association is especially proud to have joined with Drs. Stannard and Waldbauer to establish the Prairie Entomological Club.

Standing Committees

1. Seminar Committee:

Once again the Seminar Committee under the able direction of Dan Brown (fall semester) and Mark Mayse (spring semester), turned out an excellent program. Before the academic year is over Drs. Beattie, Caswell, Christensen, Dethier, Harvey, Lewis and Rothschild will have expounded upon their entomological interests. We were particularly pleased to have Robert Sisson, noted National Geographic photographer, lecture on natural photography.

2. Course Evaluation Committee:

The course evaluation committee consisting of Dan Brown, Jerry Freier, and Bob Novak was recently promoted to a standing committee because of its significant contribution in promoting student and faculty interaction. Several instructors have made serious efforts to improve their courses following some of the guidelines proposed by the committee. We definitely hope the committee will continue to stimulate course improvement and faculty-student discussion.

3. EGSA Newsletter Committee:

The newsletter has been published on nearly a monthly schedule this year. This regularity is largely due to the efforts of Dave Evans who collates as well as writes for the newsletter. A greater number of students than ever before have contributed articles during the last year.

Activities

1. Spring and Fall Picnics

Foul weather greatly limited the attendance at the spring picnic and completely eliminated the fall picnic. A few brave souls showed up at the spring picnic to marvel at the wonders of nature, the operation of a barbecue grill, and the rapidity at which beer evaporates. Kickapoo State Park produced numerous wild flowers, especially for the event. The picnic was topped off with the semi-annual football game in which everybody played and nobody won.

2. Christmas Party

Charlie Helm and Mike Toliver graciously hosted this year's Christmas Party at the Country Fair Apartments Recreation Hall. The

festivities got under way shortly after 7:30 p.m. when the liquor committee arrived with the remainder of their purchases. Snacks were supplied largely by wives but the bachelors and husbands did most of the consuming (as usual). Liquid refreshments and food were sufficient for the size of the crowd -- actually more than sufficient for some!

The staff, student, and employee ranks from the department and survey were well-represented. Drs. Delcomyn, Hummel, Larse, Price and Stannard were able to take time out from their busy schedules to attend. Dr. "Uncle Joe" Larsen created some excitement with his arrival and departure. He displayed great courage when he allowed graduate students of questionable motive to transport him to and from the 2nd floor party. By the way, it has been rumored that all graduate requirements were removed somewhere between the 1st and 2nd floor.

As the hour grew late, Dr. "Fabulous Fred" Delcomyn enjoyed an uncensored reading of Dan Brown's most creative (?) limericks. Eventually, the time came for the annual event -- the attempted departure by a lover of Scotch. Cosmic Carl closed the hall after concluding a discussion on spider-insect interaction and consuming the last beer.

In order to keep in stride with the holiday season, verbal gifts were delivered to the faculty by Santa's helpers, Dan "Rickles" Brown and Chris "The Roaster" Maier. Here is an unedited copy of the gift list:

- Dr. Friedman: A position in the Department of Entomology at the University of Illinois.
- Dr. Laberge: A set of ditchfinders for his car.
- Dr. Sternburg: A job as a refrigerator repairman.
- Dr. Delcomyn: A new Hasbro toy "The Doctor is"
- Dr. Waldbauer: Assignment to the committee which is developing an undergraduate program for the Department of Genetics and Development.
- Dr. Hummel: A sign for his office which says "Out to Lunch Permanently."
- Dr. Larsen: A pair of toothpicks for those sleepy times during seminar.
- Dr. Horsfall: One chance to proficiency insect physiology.
- Secretaries: A copy of Dolittle's Crossword Puzzle Dictionary which includes 101 words for coffee break.
- Jim Fitzsimmons: Three more helpers for the busy holiday season.
- Dr. Price: An alphabetical file to keep track of his graduate students and a map to Treno's.
- Dr. Stannard: A mated pair of termites for the Golconda mansion.
- Dr. Metcalf: A bucket of Southern fried chicken with the chickens donated by the Shell Oil Company and Jamy Whitten.
- Dr. Willis: An opportunity to teach an entomology course.
- Dr. MacLeod: A radio-telemetry collar which constantly records his geographic location.
- Dr. Jaycox: Five thousand wax moths.
- Dr. Fraenkel: The lead in a Tarzan movie filmed entirely in Africa.
- Dr. Luckmann: A chance to personally advise some of his graduate students.

Chris Maier
President EGSA

PRAIRIE ENTOMOLOGICAL SOCIETY

In September 1974 a group of interested people formed the Prairie Entomological Society. Chris Maier and Gene Kritsky took care of sending out initial notices. At the December 1974 meeting Dr. Lewis Stannard and Gene Kritsky were elected co-chairmen. In May 1975 Gene Kritsky was elected President.

The Prairie Entomological Society meets on the first Monday of every month at 7:30 p.m. in 187 Natural History Building and is open to the public. The Society concerns itself with the natural history of Illinois, collecting trips to various counties, taxonomy, and ecology of insect groups. In addition to the speakers' presentation there is a "show and tell."

Two field trips are planned for the summer, sugaring for insects in Allerton Park in June and collecting fossil insects in July.

The informal atmosphere makes the Society's activities enjoyable and worthwhile to all those interested in entomology.

Gene Kritsky
President

RECENT GRADUATES

Lloyd Richard Davis, Jr. was born on April 5, 1946 in Millinocket, Maine. He graduated from Schenck High School, East Millinocket, Maine. He received his Bachelor of Science degree in Entomology from the University of Maine, Orono, Maine in June 1968. Following graduation he spent four years in the U.S. Navy in Albany, Georgia.

Mr. Davis entered the University of Illinois in the fall of 1972 and began graduate study in the Department of Entomology under the direction of Dr. Wallace E. LaBerge of the Natural History Survey.

He is a member of The American Society of Ichthyologists and Herpetologists and Alpha Zeta.

Mr. Davis received his Masters degree in August 1974 and his thesis was entitled "The Biology of Andrena (Ptilandrena) erigeniae Robertson (Hymenoptera: Andrenidae)." He is currently working toward a Ph.D. degree at the University of Florida in Gainesville.

Jerome Elden Freier was born on May 26, 1946, in Toledo, Ohio. For his primary and secondary education he attended Bedford Public School in Temperance, Michigan. Afterwards, he entered Central Michigan University in Mt. Pleasant, Michigan where he received his Bachelor of Science degree in biology in January, 1969. Following graduation, he taught biology at Tri-County Area Schools in Howard City, Michigan. He entered the University of Illinois in the fall of 1969 to begin graduate study in the Department of Entomology under the direction of Professor Stanley Friedman. While a graduate student he was supported by a U.S. Public Health Service Traineeship.

He is a member of Sigma Xi and Beta Beta Beta scholastic honoraries. Membership in professional organizations include the Entomological Society of America and the Society of American Zoologists.

He married Lynda Beland on July 12, 1969.

Mr. Freier received his Ph.D. degree in October 1974. His thesis was entitled "An analysis of the physiological relationship between Aedes aegypti and Plasmodium gallinaceum." Jerry is currently located at the Walter Reed Army Institute in Washington, D.C.

Khian-Kioe Liem was born on January 11, 1942, in Java, Indonesia. After graduation from Loyola High School in Amsterdam, Holland, he entered Bandung Institute of Technology, Indonesia, where he majored in Biology. He received the Bachelor of Science degree in Biology in 1964 and a Master of Science degree in Parasitology in 1967. During his tenure as a graduate student, he held a teaching assistantship from 1964 to 1967. He came to the United States of America in the fall of 1969 and entered the Graduate School of Eastern Illinois University at Charleston, Illinois, where he received a Master of Science degree in Zoology (Histology-Cytology) under the late Dr. Joan F. White in 1970. He continued his studies in Entomology in the Graduate College of the University of Illinois under Dr. William R. Horsfall. During his tenure as a graduate student, he held a teaching assistantship in the Department of Entomology from 1970 to 1974.

He is a member of Sigma Xi, Phi Sigma and the Entomological Society of America.

Mr. Liem received his Ph.D. degree in May 1975. His thesis was entitled "The Response of a mosquito species, Aedes vexans Meigen (Diptera:

Culicidae) to environmental additives likely to be encountered by Natural sites." He is currently employed by the South Cook County Mosquito Abatement District. His publications include:

- Liem, K.K. and S. Sastrodihardjo. 1968. A preliminary study of aphids in West-Java, Indonesia. *Biotropica* 4:9-14.
- Sastrodihardjo, S., A. Adianto and K.K. Liem. 1969. The study of insect populations. *Proceedings, Institute Technology Bandung* 4:49-58.
- Kardatzke, J.T. and K.K. Liem. 1972. Growth of Aedes stimulans and Aedes vexans (Diptera: Culicidae) in saline solutions. *Ann. ent. Soc. Am.* 65:1425-1426.
- Novak, R.J. and K.K. Liem. 1975. The influence of humidity on the technique of induced copulation of aedine mosquitoes. *Mosquito News*, in press.

Angel Berrios Ortiz was born in Cidra, Puerto Rico, May 4, 1935. He graduated from the Ramon Vila Mayo High School, Rio Piedras, Puerto Rico, in 1953; received his B.S. in Biology from the University of Puerto Rico, at Rio Piedras, in 1957; and obtained the M.S. in Entomology from the University of Illinois at Champaign-Urbana in 1961.

Mr. Berrios was appointed Instructor, Biology Department, at the University of Puerto Rico at Mayaguez in 1957, Assistant Professor in 1962, and Assistant to the Head, Biology Department, in 1965.

In 1964 Mr. Berrios received a grant from the National Science Foundation Summer Institute Scholarship fund to attend a course in desert biology at the University of Arizona at Tempe. In 1972 he participated in field studies of blister beetles in Mexico with R.B. Selander. His work at the University of Illinois has been partially supported by grants from the National Science Foundation (to Selander) for studies of the behavior and ontogeny of blister beetles.

Professional societies to which Mr. Berrios belongs include the BBB Biological Society, Entomological Society of America, Natural History Society of Puerto Rico, and the Sigma Xi Club of Mayaguez, Puerto Rico.

Publication (with R.B. Selander): Sexing immature blister beetles. *Jour. Kansas Ent. Soc.*, vol. 45, pp. 376-380 (1972).

He received his Ph.D. in January 1975. His thesis was entitled "Skeletal musculature in larval phases of the beetle Epicauta segmenta (Coleoptera, Meloidae)." His advisor was Richard B. Selander. He has returned to Puerto Rico where he has resumed his teaching responsibilities at the University of Puerto Rico.

Larry George Pappas was born in Chadron, Nebraska, November 16, 1946. He attended public school in Gering, Nebraska. After high school, Mr. Pappas entered Hiram Scott College where he graduated with a B.S. degree in zoology in 1969. In 1971 he completed a M.S. degree at the University of Wyoming in zoology and physiology. Mr. Pappas was supported as a research assistant from 1969-1971 and as a USPH Trainee from 1971 to the present. He is a member of Sigma Xi. His publications include:

- Owen, W.B., J.R. Larson and L.G. Pappas. 1974. Functional units in the labellar chemosensory hairs of the mosquito Culiseta inornata (Williston). *Journal of Experimental Zoology*, 188, 2:235-48.

He received his Ph.D. degree in May 1975. His thesis was entitled "The Function of Sensory Receptors on the Legs and Mouth-Parts of the Mosquito Culiseta Inornata." His advisor is J.R. Larsen. Larry is currently in the process of looking for a position in an academic institution.

Tawatchai Sitchawat was born on December 30, 1944, at Umper Bang Lane, Nakorn Pathom, Thailand where he also attended primary school. He continued his high school education and received his diploma from Trimitvidyalai School, Bangkok in 1965. He enrolled at Kasetsart University, Bangkok in the same year and received a Bachelor of Science degree in Agriculture in 1969. After his graduation he worked for the Thai government at the Northeast Agricultural Research Center, Khon Kaen on the legume insect pests and their control. In July 1972 he was sponsored by the Thai government and the United States Agency of International Development as a candidate for the degree of M.Sc. in entomology. He entered the Graduate College of the University of Illinois in the Department of Entomology in August 1972. Some of his research publications:

Roongsook, D., T. Sitchawat, F.W. Knapp, and A. Tiemtaisong. 1973. The effect of phorate and malathion on beanfly control and on yield of mungbeans. *Thai J. Agr. Sci.* 6:283-286.

Sirising, S., T. Sitchawat, and N. Alapach. 1970. Soybean insect pests in Northeast Thailand and their control. *Res. Bull.* 4:44 pp. Klungnana Press, Khon Kaen, Thailand.

Sitchawat, T., W. Amaritsuth, and F.W. Knapp. 1970. The effect of insecticide sprays and application methods against the leaf roller on peanut. *Thai J. Agr. Sci.* 3:93-98.

He received his Masters degree in January 1975. His thesis was entitled "Foliage consumption by the soybean looper, Pseudoplusia includens (Walker): effect on the growth patterns of soybean plants." His advisor was W.H. Luckmann. Mr. Sitchawat has returned to Thailand.

Willard E. Woodward was born on June 9, 1939, in Taylorville, Illinois. He attended elementary and high schools in Taylorville and graduated from Taylorville High School in 1957. In 1962 he received a B.S. degree in Liberal Arts and Sciences and in 1965 a M.S. degree in Biology, both from the University of Illinois at Urbana. He also attended Illinois State University at Normal and the University of Wisconsin at Madison. He has been a professional musician, a science editor and writer, and a teacher of biology and chemistry.

Mr. Woodward received his Ph.D. in July 1974. His advisor was James G. Sternburg. His thesis was entitled "Responses of labellar sensory receptors of the house fly, Musca domestica, and the effects of DDT and analogs on the salt receptor in susceptible and resistant strains." Mr. Woodward is currently teaching biology at Parkland Junior College in Champaign, Illinois.

PICTURE SECTION

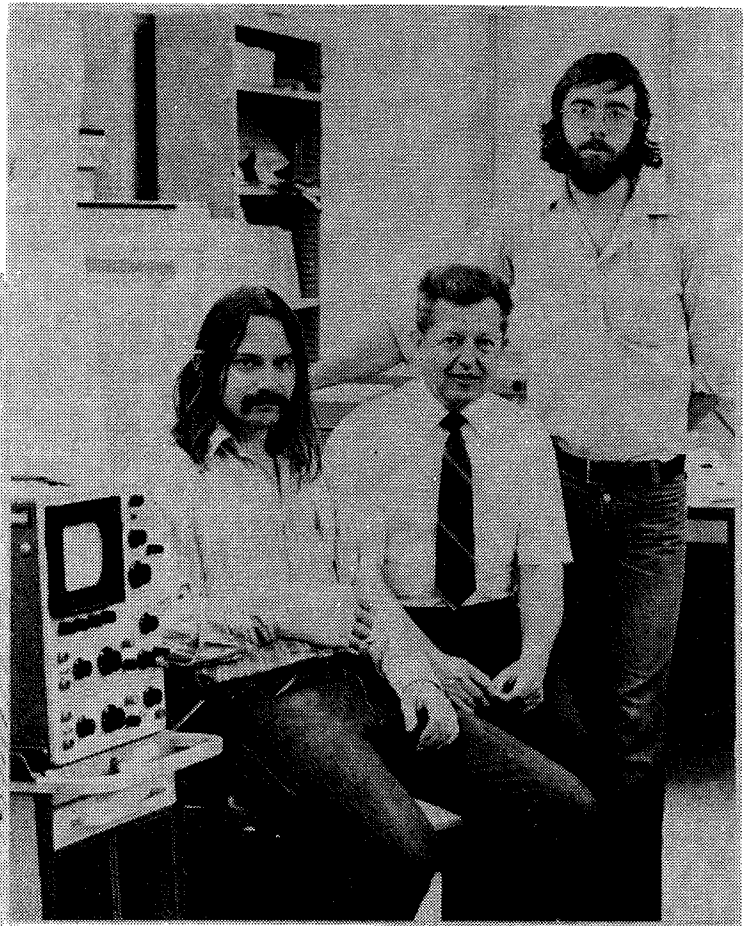
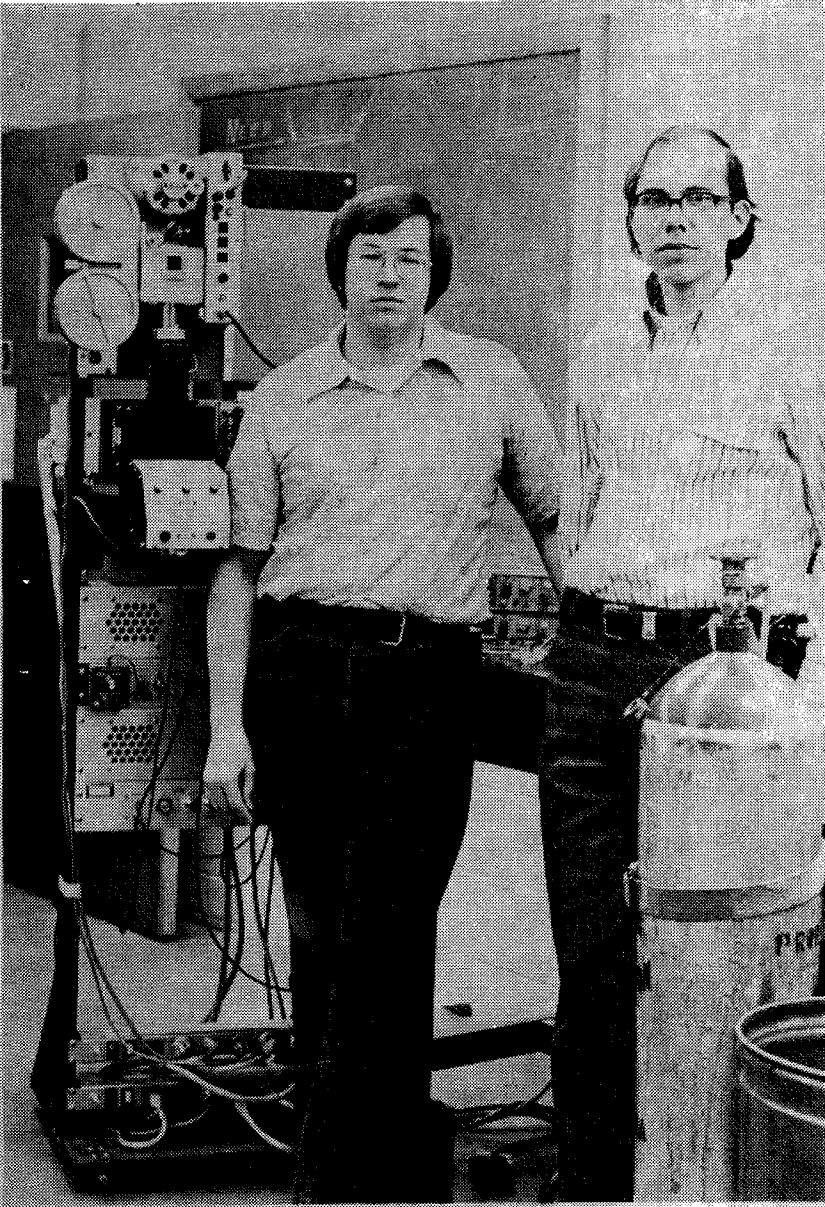


Overall view of campus looking west with Morrill Hall in center

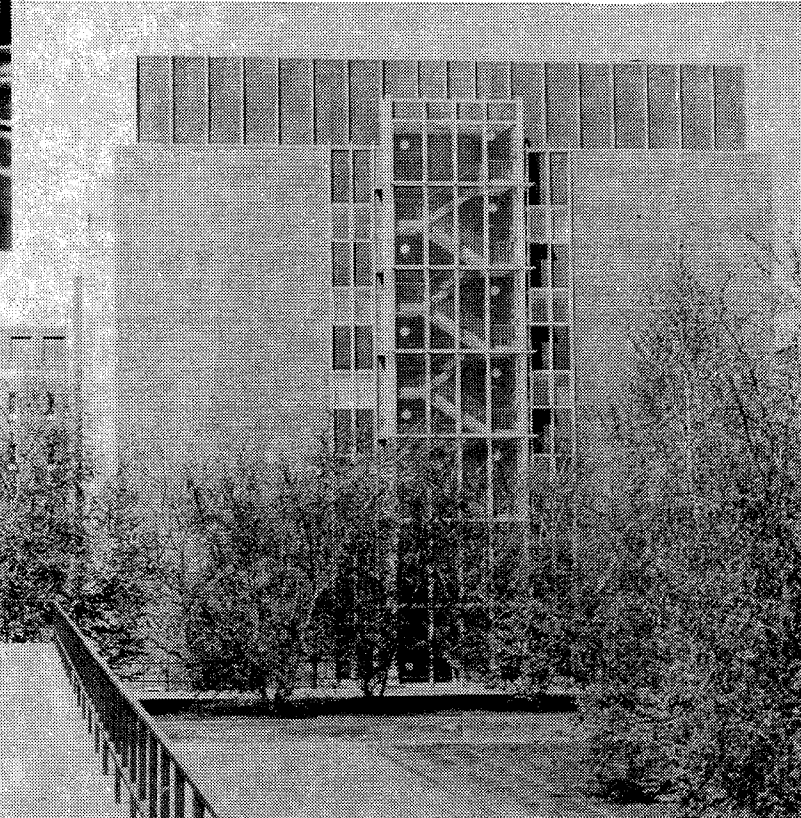


Malethu Mathew, Morris Seligman, Robert Metcalf, Louise Shively, Stan Friedman, Andy Chen, Ellis MacLeod

Mike Toliver, Jim Sternburg, Mike Jeffords

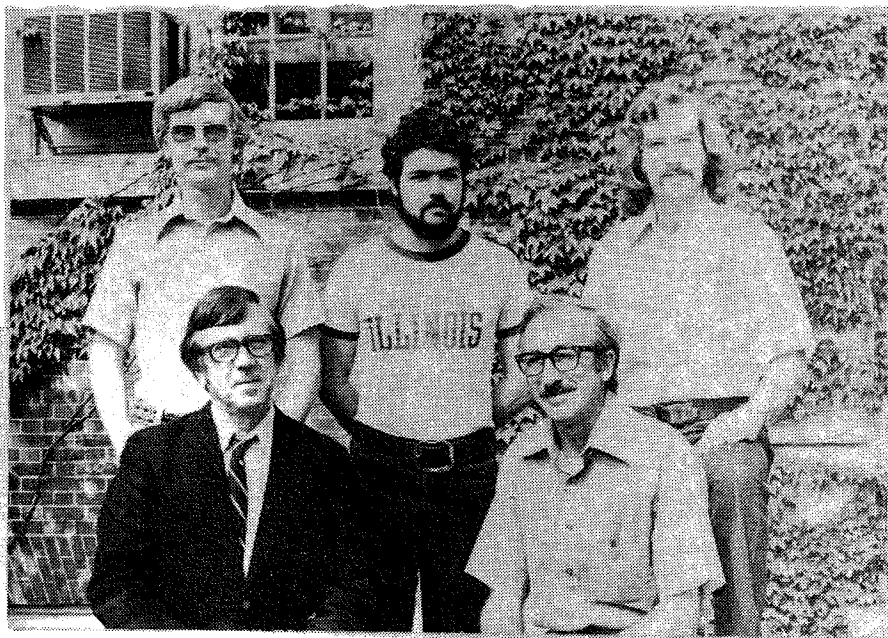


Darryl Daley, Fred Delcomyn



East entrance of Morrill Hall

Standing: Charles Gerdes,
Jose Mari Mutt, Gene Kritsky
Seated: Lewis Stannard,
Wallace LaBerge

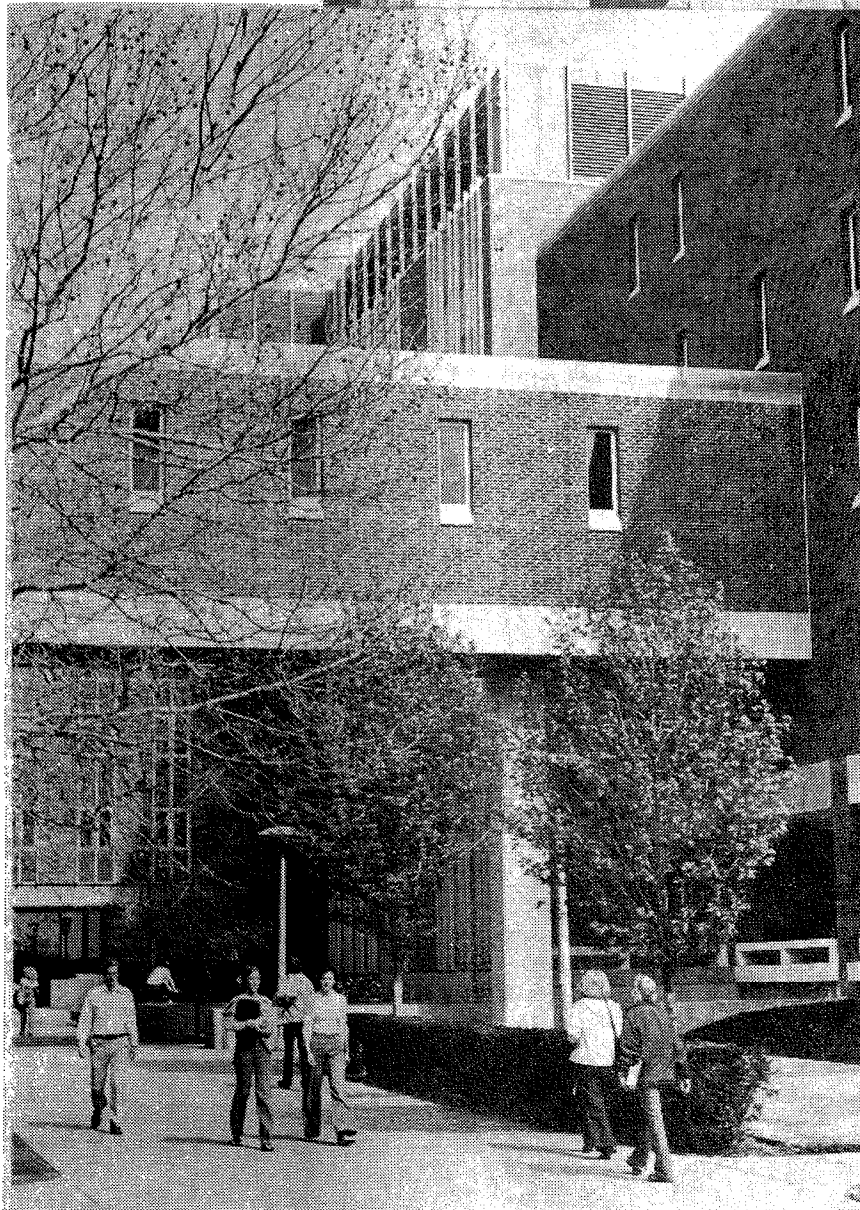


Cheryl Adams, Nancy Edmunds Agafitei

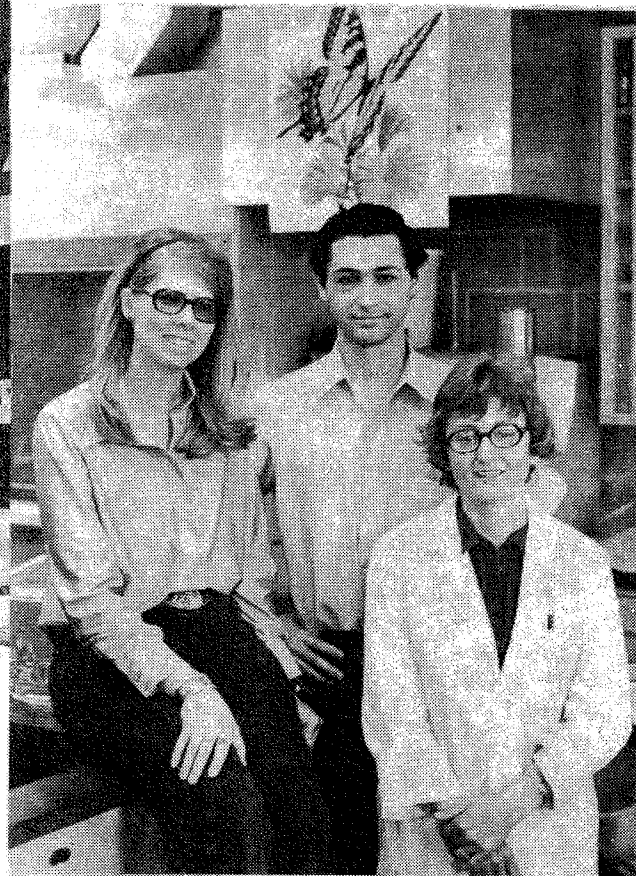
East entrance
of Morrill Hall



Office staff:
Standing: Ruth Plymire,
Eloise Duvall,
Jim Fitzsimmons,
Bonnie McMillan
Seated: JoAnn Munnis



Bridge connecting New Medical Sciences Building and Burrill Hall



Elaine Roberts, Bill Walker, Margaret Hollowell

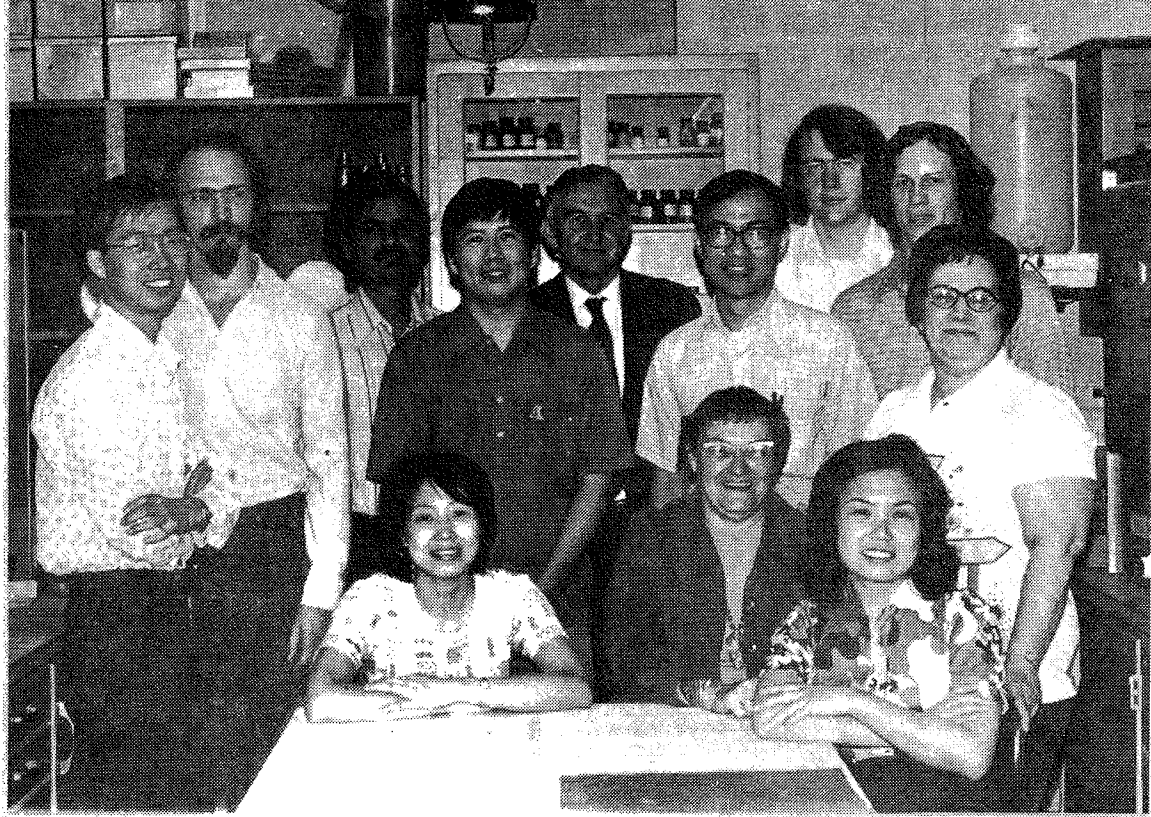
Eddie Chio, Jane Buth,
Caroline Chang, Li-chun Chio,
An-horng Lee, Hans Hummel



Peter and Gavin Andrew Price



Are you sure that's the correct species dad?

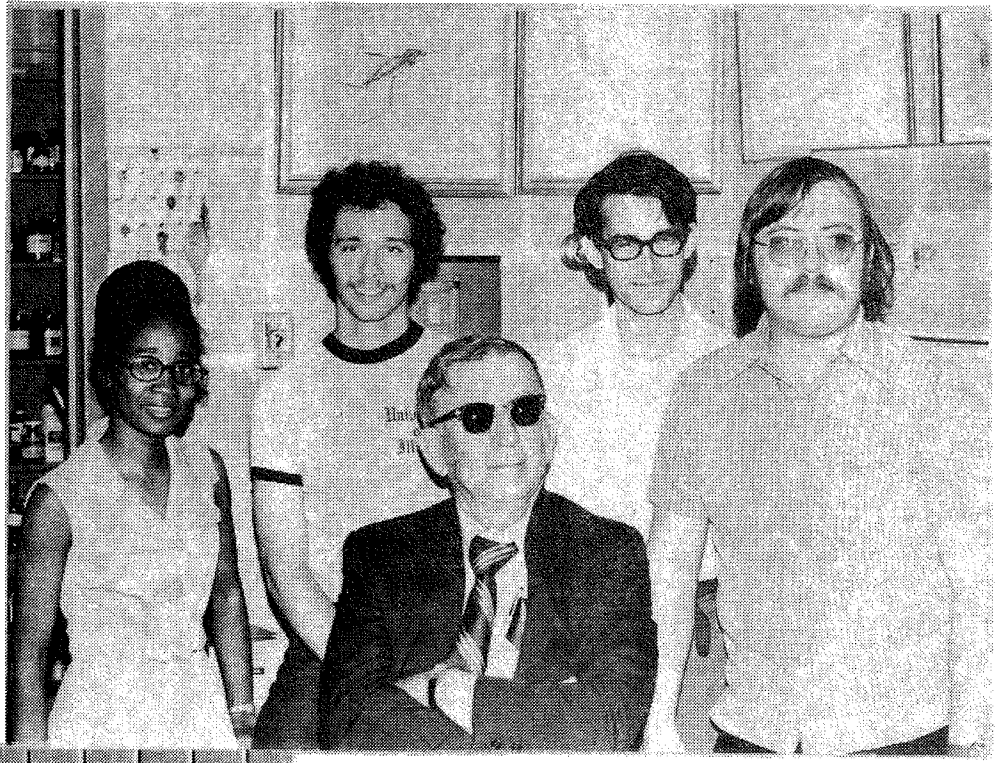


Standing: Alex Au, Al Tegen, Ali Syed, Jim Lu, Robert Metcalf, An-horng Lee,
Dan Brown, Joel Coats, Lavella Wrisk
Seated: Maggie Yang, Ruth Milhollin, Li-chun Chio

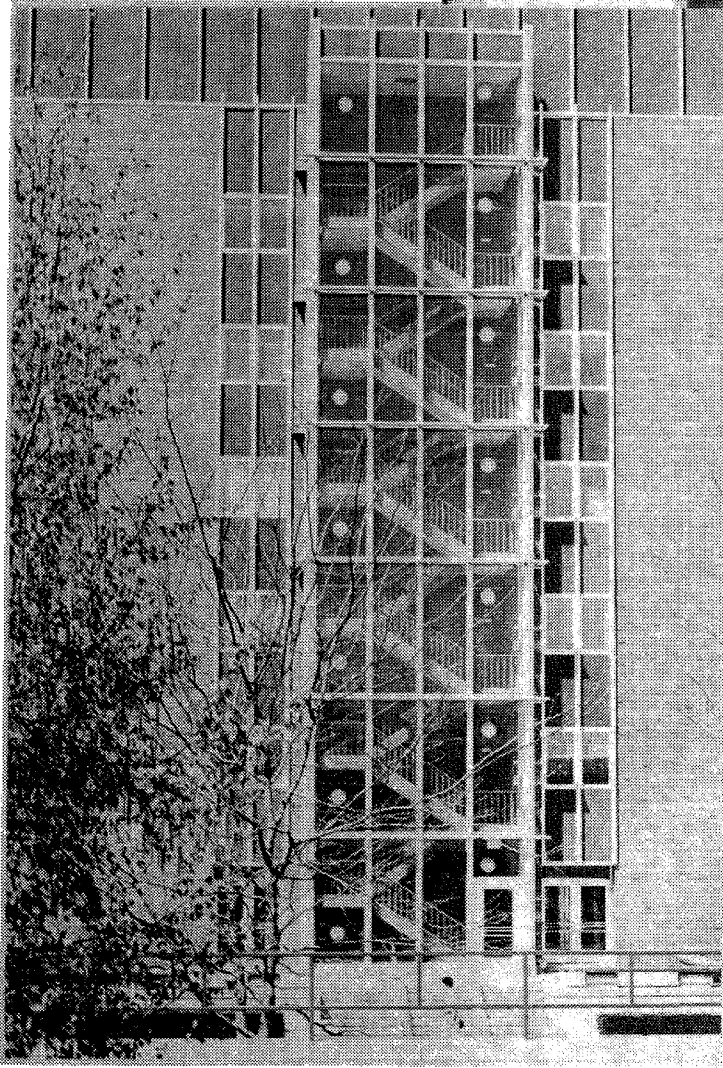


Mary Fisher, Joe Larsen, Ralph Harbach, Linda Zaitlin, Larry Pappas,
Ross Gundersen

Beulah Parker, Rick Brenner,
William Horsfall,
Dan Strickman, Bob Novak



East entrance of Morrill Hall



Carl Bouton, Mark Mayse,
Susie Coats, John Thompson,
Mark McClure, Peter Price
Richard Thiery

Gottfried Fraenkel, Jan Zdarek, Paul Herman
Ann Blechl, Carol Pappas



Dave Evans, Gil Waldbauer
Chris Maier



Our loyal photographs and cover designer
Alice Prickett, Mitch Paulson

STUDENTS AND STAFF

ADAMS, Cheryl Lynn. Research: Taxonomy, behavior and ecology of the vittata group of the genus Epicauta (Coleoptera: Meloidae). I am finishing my thesis and have accepted a position at the American Museum of Natural History as Curatorial Assistant.

Advisor: R.B. Selander

ALI, Syed. The past year kept me busy fulfilling the course work and research requirements. My "fishy" research work on the pesticide residual analysis of Lake Decatur ecosystem compelled me to stop eating my favorite fish hamburger. Whenever I eat or drink water, instead of calculating calories, I calculate ppm of DDT, DDE, Dieldrin, Heptachlor, Heptachlor epoxide and Hexachlorobenzene. Sometimes I prefer going on a diet, not because of calories but for ppm of pesticides. It is very hard to forget the huge peaks on the GLC.

Advisor: R.L. Metcalf

ANDERSON, Thomas E. Lacking other work, my summer of '74 was spent learning boilers for the Scholl Manufacturing Company. This coming summer will (hopefully) bring a small improvement: working for the Natural History Survey on the Soybean Team (Rah! Rah!).

After being harried by friends and relatives saying, "But what are you going to do with these bugs?"; I decided I'd get into a program where I could give them a good, practical answer: I entered pest management. Now, to their questions I could reply, "This semester I'm sampling corn rootworm eggs. It's like digging postholes for a fence, but it's done right through the middle of the field rather than around the perimeter." It worked, they stopped asking me questions. Now they just sadly nod their heads.

Advisor: W.H. Luckmann

AU, Lam Alexander. I entered the department last fall semester. Before that I studied in Taiwan finishing my B.S. degree last summer in the Department of Plant Pathology and Entomology, National Taiwan University. When I came to the department, I met several of my old schoolmates and also some staff and students who were so friendly and kind that I did not feel like a stranger here. I was also glad that I joined the group of Dr. Metcalf's at the same time since I like toxicology very much. I am now working for my Master's degree under Dr. Metcalf. I have not started my own research as yet, but am learning experimental techniques of the model ecosystem. Hopefully, I shall start my own research in the field this summer.

Advisor: R.L. Metcalf

BOUTON, Carl. In May I left Notre Dame with an M.S. and headed for Pellston, Michigan, where the University of Michigan Biological Station is located. There I took a course in island ecology and did an independent research project on competition and predation of corixids. I finally made it to Urbana in August.

After a semester of core courses and a trip to the meetings in Minneapolis, I devoted about three weeks to short courses in tropical biology and Spanish Ia. In mid-January I flew to San Jose, Costa Rica for the tropical biology course given by the Organization for Tropical Studies. Although the course was shortened to six weeks, as opposed to the normal eight, we saw most of the life zones and had time to do some very interesting and enlightening group and individual projects.

I think the two most meaningful things I came away with were 1) an appreciation of the fact that there is an array of climas communities in the tropics and 2) a better understanding of temperate ecosystems simply because of having had the opportunity to contrast them with those of Costa Rica. Overall it was a very worthwhile experience and I greatly appreciate the departmental support that helped make it possible.

Advisor: P.W. Price

CHIO, Eddie H. and Li-chun. My wife, Li-chun, is working with Dr. Metcalf. Her research focused on the penetration rate and metabolic pathway of insecticides in different insect species.

I am working with Dr. Sanborn at the Natural Resource Study Annex which is located near the Assembly Hall. My research aimed on the effect of environmental toxicents to soil fauna. Now I am working on the interaction of herbicides to insecticides as well as the herbicide metabolism in earthworm.

My favorite sport is ping-pong. We meet together every Friday night from 8 to 11 pm at the basement of ISR. There are a lot of good players around and you are welcome to join us.

Advisor: W.H. Luckmann (Eddie)
Advisor: R.L. Metcalf (Li-chun)

COATS, Joel. Position: Post-doctoral research associate for Robert L. Metcalf. The past year I have worked on an FDA-financed model ecosystem study of the potential environmental effects of veterinary drugs and dietary supplements. I have also been shaping my thesis into a publishable form. In addition, my new role as a father has proved exciting and very rewarding.

COATS, Susan. During the past year I have finished the research for my Masters. I am presently completing my Master's thesis and hope to finish my degree early this summer. All my graduate studies have been planned around the birth and care of our daughter, Sarah Grace, who arrived last August. Our travels included jaunts to Busey Woods and Homer Lake to observe and identify insect, bird and plant life.

Advisor: P.W. Price

EVANS, Dave. I am presently doing research concerning the phenological distribution of syrphid fly mimics, their acculeate models, and naive birds. I have conducted over 200 experiments thus far and had good results, but much more work is necessary.

After I obtain my Ph.D. I would like to teach on the college level and continue my research in mimicry.

Advisor: G.P. Waldbauer

EVRARD, Stephen. During the past year Dr. Luckmann has helped me transfer from working on forest, greenhouse, and ornamental insect problems under Survey entomologist, Dr. James Appleby to Dr. Michael Irwin. With Dr. Irwin I shall do my master's thesis on insect problems in soybeans.

While the main portion of my time is used studying the life sciences, I volunteer some of my academic time by teaching SCUBA lessons with the University SCUBA instructor. This gives me teaching experience I would not otherwise get and helps me keep my interests from getting too narrow.

Advisor: W.H. Luckmann

FAROOQUI, Mohammed Y.H. During the past year I was away from the campus for more than one semester due to sickness. I was back again in Spring 1975. At present I am busy completing course work. Hopefully, I will finish my work for the M.S. by the end of this summer. Then I will start work for my Ph.D. in Fall 1975. My research will be in toxicology.

Advisor: R.L. Metcalf

GERDES, Charles. I completed my Masters degree at Western Illinois University and decided to go into research of Thysanoptera at the Survey.

Advisor: L.J. Stannard

GUNDERSEN, Ross. This is my second year as a graduate student working toward a Ph.D. My research deals with the development of fiber tracts in the brain of Phormia during metamorphosis. I have quickly learned that histology (especially silver nerve stain) is very valuable in its informational content, but at the same time very difficult and demanding. Nerve stains have seen recent improvements rendering them very reliable, but at times they do fail to work. The only tissue they infallibly stain--is human epidermis.

At the end of May I will marry Cheryl Fredericksen, who has a B.A. in biology from my undergraduate university.

My course work is nearing completion, and I tentatively plan to take my preliminary exams at the end of summer or beginning of fall term.

Advisor: J.R. Larsen

HARBACH, Ralph. Since the last issue of the Newsletter, all of my course work and preliminary exams have become past history. Most of my efforts have been focused on a study of antennal hygroreceptors in Oncopeltus fasciatus and Tenebrio molitor, but the preparation of a manuscript with Dr. Larsen has also kept me busy.

Travel during the past year was restricted to a vacation, with my wife Roberta, in beautiful Colorado. Camping at the foot of the Maroon Bells near Aspen proved to be the highlight of our trip.

Advisor: J.R. Larsen

JACKAI, Louis E.N. A citizen of the world by way of the United Republic of Cameroon (W.A.). I studied in the University of Cape Coast (Ghana) and at the University of Wisconsin at Superior prior to coming down here to the "Big U." I have been doing course work since I started here last fall, and this semester I am also doing some feeding studies on the soybean looper--Pseudoplusia includens (Walker) under the supervision of Dr. M. Kogan.

Advisor: W.H. Luckmann

KRITSKY, Gene. I came to the Department from Indiana University at Bloomington, Indiana. My interests are in the history of biology, paleobiology, and insect systematics. My research interests concern the morphology, habits and taxonomy of the Enicocephalidae: Hemiptera.

In the past year my projects concerned the distribution of the periodical cicada, the paleoecology of Eastern Kentucky, and insect collecting in South Florida. During the summer I hope to work on my Masters thesis and collect in Tennessee.

Advisor: L.J. Stannard

LESAR, Charles. This year has been an extremely busy one for me, as I have returned to the University of Illinois after a seventeen-year-absence to finish my Ph.D. requirements. I will be concluding my sabbatical leave and returning to my teaching position in the fall at Illinois Central College, where I will continue my research in spider colonization of cultivated row crops.

Advisor: W.H. Luckmann

LU, Po-Yung. The past year was a very good year for me professionally, working under Dr. Metcalf for the NSF, RANN program "Evaluation of a laboratory microcosm for study of toxic substances in the environment." We have made substantial contributions and satisfactory progress, 3 manuscripts were accepted for publication, and other interesting projects will be completed soon.

Personally, my wife and I were very pleased to have our parents visit us twice, in August and December. We took a trip to Madison, Wisconsin in August and another trip to the west coast for dual purposes, to see our parents off and also for a vacation. We enjoyed it very much.

MAIER, Chris T. Teaching, research, and reviewing (for prelims) occupied the majority of my working hours during the past year. My research has followed the course of a rat in a maze--after much trial and error, I believe I can easily follow the path to the desired goal, a thesis.

Excursions, other than research-related ones, were very limited last year. I slipped away to the Appalachians for an excellent collecting vacation and to Horseshoe Lake for a (fishless) fishing misadventure. On the academic side, I journeyed to St. Louis for a biogeography conference and to Minneapolis for the annual ESA meetings.

Advisor: G.P. Waldbauer

MARI MUTT, Jose. Two important things happened last year. First, I have been able to assist to this University, which has proven to be a great experience. Second, my first paper was accepted for publication in Puerto Rico.

Publication: Mari Mutt, J.A. 1975. The genera of Collembola in Puerto Rico. Keys, diagnoses, and general comments. Journal of Agriculture of the University of Puerto Rico. (In Press).

Advisor: L.J. Stannard

MATHEW, Malethu. This year we are extremely lucky to have a baby girl (Suga) and are proud of her. She came on October 15, 1974. In addition to that, our son who was taken to India while he was six weeks old, joined us in February 1975.

With regard to the studies, most of the time during the past year has been spent on course work. Research work did not get much attention, owing to the pressure of course work and the indulgence in domestic affairs. Anyhow, during the latter part of the year I have decided to speed up my research and to my great surprise, it has started to take a proper turn.

Advisor: S. Friedman

MAYSE, Mark A. During the summer of 1974 I worked with Drs. Waldbauer and Kogan on the bean leaf beetle-soybean project, and gained a good deal of valuable field and lab experience. In addition, I conducted part of my Master's research on the seasonal abundance of leafhoppers in an old field and various other aspects of cicadellid biology. In the fall I attended the Minneapolis ESA meetings and thoroughly enjoyed the papers presented as well as the fellowship and good times which are expected whenever entomologists aggregate. Another highlight of the fall semester was assisting in the teaching of Entomology 315, the insect ecology course taught by my advisor, Dr. Price.

Spring break of 1975 provided an opportunity for Mike Jeffords and me along with our "assistants" to travel to Big Bend National Park in Texas where we collected insects, camped on the Rio Grande, and generally enjoyed a week-long respite from business as usual.

In the summer of 1975 I plan to work on the soybean project again, this time with emphasis on the colonization of soybeans by arthropods which is my doctoral thesis topic.

Advisor: P.W. Price

MCCLURE, Mark S. The past year has been a very busy and rewarding one for my research endeavors. My studies on competition and coexistence in Erythroneura leafhoppers on sycamore have progressed well and have revealed a fascinating ecological relationship among these insects. I found that the niches of the eight closely related species are very similar and these leafhoppers compete at densities commonly observed throughout Illinois during the summer. However, the species occupy different habitats by exploiting more heavily, different latitudinal zones throughout the geographical range of their host plant. This partitioning of habitats provides each Erythroneura species with a partial refuge from extensive competition and thus, ensures its survival. Coexistence among these leafhoppers (as many as seven species have been found occurring sympatrically) is apparently maintained by migration of competing species from their geographical refuges.

I spent most of the past summer and fall collecting leafhoppers throughout Illinois and conducting rearing-competition experiments here in Champaign. One of the more memorable (and successful) expeditions of the summer was a weekend collecting trip to the Smoky Mountains with Peter Price, the "Chief," and his motley 415 crew. With eager anticipation, the scientific world awaits the group's forth-coming release, "Field Guide to the Cicadellidae and Intestinal Disorders of the Buckhorn Lake Region."

Although most of my travel during the summer was research-related, Laura and I did manage to escape Illinois during the July 4th weekend. The Land Between the Lakes and the Mammoth Cave of Kentucky were a welcome topographic change. This past fall I attended the Biogeography Symposium at the Missouri Botanical Gardens and the annual Entomological Society of America meetings in Minneapolis. Both events were personally interesting and professionally rewarding.

The laborious task of organizing and writing my research findings has effectively consumed much of the winter months. To occupy the remainder of my time I have joined the rest of the country in seeking employment.

Advisor: P.W. Price

MIELLENZ, Susan. I am a first year graduate student in the Master's program. My area of interest is pest management. I graduated from the University of Illinois with a B.S. in biology in May 1974, and spent the summer working at the Illinois Natural History Survey, Division of Economic Entomology. I had a week's vacation between working at the survey and the beginning of my assistantship as the undergraduate biology advisor, during which I got married. My husband, Jonathan, is a graduate student in microbiology and will be receiving his Ph.D. before I complete my Masters. Then we'll be off to parts unknown, hopefully with an entomology department.

Advisor: W.H. Luckmann

MILLHOLIN, Ruth. Another year gone by already? It's not possible! The Insecticide Evaluation Program just keeps plugging along although fewer compounds have been submitted for testing. Perhaps a reflection of the economy or a result of greater emphasis on pest management rather than pest control. A lot of hormone-type compounds are being tested by Barb Walton, an occasional one by myself.

It was nice to welcome Hans Hummel to the staff and sad to bid good-bye to John Williams who is now at Abbott Laboratories.

On the personal side, it was great fun having a WINNING football season and watching my freshman son participate in the Marching Illini!

NOVAK, Robert. It has been a productive year for me. I finished my prelim and am on the last leg of my research. I am looking forward to working in Decatur at the Mosquito Abatement District this summer.

Advisor: W.R. Horsfall

SELIGMAN, Morris. Involved with the usual "this or that" in Dr. Stanley Friedman's laboratory. These last months my major concern has been coordinating the comparative physiology course. Plans for the immediate future include a spell of less impermanent employment at I.S.U. I am their resident expert in a field of speciality that corresponds approximately to my field of irrelevant interest. Malkah and the kids (3 boys) are in pretty good shape I think.

SIDDIQI, Mohammed A.Q. In Fall '74 I took two courses: Insect Classification and Medical Entomology. This semester I have taken Chemistry and Toxicology of Insecticides. Hopefully, I will complete my M.S. in July 1975.

Advisor: W.H. Luckmann

STRICKMAN, Daniel. This has been a very interesting and challenging year for me. Mosquito colony rearing has been like learning to play tennis, where all the books in the world are no replacement for practice. My first experience as a T.A. in Drs. Metcalf and Hummel's toxicology class has certainly been an experience. I find myself feeling much more sympathetic toward T.A.s whose labs do not go smoothly. Next year I'm hoping I'll have more time to spend both with the mosquitoes and as a teaching assistant--those have been the most rewarding aspects of the year.

I'm looking forward to having more friends and less strangers in my second year here after having had a chance to work with people in the department. Also I'll be married come August to Linda Stangor of Escondido, California. Of course, she's more than a friend. Finally, I want to thank Dr. Horsfall both as an advisor and as a very kind help during my illness.

Advisor: W.R. Horsfall

WALKER, Bill. Over the past year I have made some further progress in understanding the control of reproduction and sex in the large milkweed bug, but there is still much more to be done before I have a reasonably complete story to tell. I found T.A.'ing for the Honors Biology Program a challenging (but time consuming) experience. In addition to a brief "getaway" at the Minneapolis ESA meetings, I took part in an Audobon sponsored trip to the upper Amazon and adjacent parts of South America, and brought back a box full of insects in addition to a Yagua blowgun and a good suntan.

Publications:

Walker, W.F. 1974. Responses of selected Thysanoptera to colored surfaces. *Environmental Entomology* 3:295-304.

Walker, W.F. 1974. Hormonal-induced Pathologies, pp 417-50, in G.E. Cantwell (ed.) "Insect Diseases" Vol. II Marcel Dekker, Inc., N.Y.

Advisor: J.H. Willis

WATSON, Philip. This is my first year at the University of Illinois and I have been busily discovering how little I knew about entomology. It has been an active year but a fruitful one for me. In addition to the core courses and German, which I will have completed at the end of the summer, I have been involved in two studies with Dr. Maddox. In the fall we tested the effect of Nuclear Polyhedrosis virus on three genotypes of Heliiothis zea Boddie, with surprising results. This semester's work has involved the microsperidian (Nosema whitei) effects on Tribolium confusum and is yet to be completed. In addition to the studies and course work, Dr. Maddox has presented several informal sessions on various topics of insect pathology. Dr. Maddox, Dr. Ruesink, Dr. Luckmann, and I have selected a research topic which I believe will keep me busy for quite awhile before I can discuss it intelligently.

Advisor: W.H. Luckmann

ZAITLIN, Linda M. I am currently working on a morphological study of fly mouthparts, using Mydas clavatus as my research animal. My husband is finishing his degree (by summer) in physics.

Advisor: J.R. Larsen

Received too late to be alphabetized:

CHIEN, Andrew. This past year has not been very fruitful in terms of the accumulation of data. Good luck did not seem to be around all the time. For the past months we have been trying to develop a technique for ultramicro quantitation of protein. We hope that when we get this technique perfected we will be able to do some meaningful experiments on minute quantities of sample from Phormia.

Activities and travel were essentially non-existent because our baby was small. But we think he is worth our sacrificing these activities. Now that he has grown older and probably able to travel we hope that we can make some of this up this summer.

Advisor: S. Friedman

NEWS ABOUT THE FACULTY

Fred Delcomyn

Research, teaching and writing continue to provide enough excitement to keep life from ever seeming dull. Teaching a general education course in entomology proved much easier the second time through, especially with the aid of an excellent group of T.A.s. Interest in insect neurobiology has seemingly blossomed this spring, as by the end of the term I will have given lectures in five separate courses! Starting next fall, I will also be teaching Insect Behavior on a regular basis.

Research is progressing more slowly than I had hoped it would. It appears that giant nerve fibers formerly thought to be involved primarily in escape behavior have spontaneous activity as well. The functional reasons for this remain a mystery. At least support of the research is no problem, as I was fortunate enough to be awarded a 3-year N.I.H. grant for my project, starting June 1975.

I completed several articles last year, and accepted a major task by agreeing to write a chapter on "coordination of movements in invertebrates" for a book on animal locomotion. That will keep me occupied for a while!

Stanley Friedman

Our sabbatical semester in Israel was highly instructive and enjoyable, both scientifically and culturally. Our travels took us into primitive desert areas as well as arid lands which had been converted to intensive agricultural activity, and we feel that we learned a great deal about the pressures shaping their entomological problems.

With regard to laboratory experience, I had the pleasure of working in the Department of Protozoology at the Hadassah Medical School in Jerusalem on a phlebotomine transmitted protozoan, Leishmania tropica. I am hopeful that some of the insights into vector and host parasite relationships that I gained from the people in that laboratory will stand me in good stead in my own future pursuits.

G.S. Fraenkel (Emeritus)

Highlight of 1974 was a trip to Kenya. The occasion: attendance at the Seventh International Symposium on Comparative Endocrinology, June 29-July 7, at Tsavo National Park (one of the National Parks in Kenya). I was invited to give one of three principal lectures. Topic: Interactions between ecdysone, bursicon and other endocrines during puparium formation and adult emergence in flies (will be published shortly in a book comprising all invitational lectures).

This was preceded by a most interesting and exciting safari led most capably by Dr. David L. Denlinger (a former student in the department) who for two years had been working at the International Institute of Insect Physiology and Ecology at Nairobi. (See also the account of Dr. Judith Willis.) After the symposium I spent several days on the coast of the Indian Ocean at and near Mombasa, which again was an unforgettable experience.

Before and after the Kenya trip, I spent five weeks in Israel, mostly in research with Dr. Eliahu Zlotkin at the Hebrew University, Jerusalem, on toxic action of snake and other venoms, using the pupariation reactions of fly larvae as a criterion for recognizing physiological actions (a cooperative project of long standing).

Research during 1974 and continuing at present includes:

A. Hormonal control of puparium formation in flies by interactions between ecdysone, cAMP, the ARF (Anterior Retraction Factor) and PTF (Puparium Tanning Factor) in cooperation with Dr. I.M. Seligman; (then) undergraduate student, Paul Herman (now a medical student); and at present another undergraduate, Ann Blechl.

B. Maintenance metabolism in fly larvae, in cooperation with Susan Kraft, then an undergraduate student (now a medical student).

C. Hormonal control of oogenesis in flies, in cooperation with Dr. Carol Pappas. This is a topic which, in spite of numerous papers already in the literature, continuously yields surprises.

D. Control of molting and growth in fly larvae.

William R. Horsfall

One finds it difficult to report striking things that have occurred each year. My classroom contacts have been particularly rewarding this year. Classes have been larger than usual and students have been responsive to a gratifying degree. As research advisor, I have one student completing his degree (Liem), one who has completed his prelims (Novak), two that are floundering in the early throes of research planning and one who is beginning his M.S. program. My research is largely field-oriented now as I try to close out many years of trying to find out where and why flood mosquitoes oviposit where they do. This work has been in cooperation with the Forestry Department and Macon Mosquito Abatement District. The last papers on thermal stress appeared in 1974, and this phase of my work is now completed. Considerable personal satisfaction has been realized as recipient of one of the first all-university Wakefield awards of merit based on peer selection.

Hans E. Hummel

In August 1974 I joined the Entomology faculty as a successor of the insect toxicologist Dr. Clyde Kearns. My goal is to integrate the use of insect pheromones into pest management programs currently in use, or being developed, at the University of Illinois. Part of this endeavor will be selection of important pest species, the development of quantitative bioassays, enrichment, isolation, identification, chemical synthesis and comparative tests of the synthetic pheromones under laboratory and field conditions. In addition, I have longstanding interests in mechanisms of pheromone-receptor-interactions and in studies of pheromone specificity, insect orientation mechanisms, insect hormones, and pheromone biodegradability.

In the future, I will try to establish a new lab course on insect pheromones and biological control of insects. My first two semesters at Urbana were quite challenging in getting the new pheromone laboratory going. It was also very stimulating to share teaching Insect Control and Insect Toxicology.

Once in a while I like to forget science for a moment and enjoy photography, swimming and instrumental music as pasttimes.

Elbert R. Jaycox

With my family, I spent the year from June '73 to May '74 in Bern, Switzerland. During that time I worked in Dr. Martin Lüscher's laboratory at the University of Bern and in the Federal Beekeeping Laboratory in Liebefeld, a suburb of Bern. My research dealt with the responses of worker honey bees to injections of synthetic juvenile hormone, and the control of pollen feeding in the young bee.

Bern is the capital and one of the most beautiful old cities in Switzerland. German is the official language, which was used for the weekly seminars that usually began at 5 p.m. and lasted until around 7:30 p.m. Swiss dialect, much different from German, was the language at the lab and coffee time. Fortunately, most students and profs also spoke English. Many also speak French and Italian. In other places in the city this was not always the case. We bought our car and car insurance from large agencies where people could not, or would not, use English.

In the spring of 1974 we visited beekeeping and entomology laboratories in the following places: Oberursel, Germany; Wageningen and Utrecht, Holland; Rothamsted Experiment Station, England; and Bologna, Italy. We were also able to see some of the places of interest in those and other countries.

In the fall, enrollment in Entomology 361, Bee Behavior, rose from a previous high of 27 to 46, and we turned students away. Interest in bees and beekeeping in Illinois has greatly increased, thereby increasing the demand for information and publications about bees. For example, our beekeeping circular, *Beekeeping in Illinois*, had sold slowly for several years after its publication in 1969. Now we are receiving orders for as many as 300 to 1,000 copies, and getting requests for price quotations on 5,000 or more copies.

Ellis G. MacLeod

After a vacation of a year in the newly formed Provisional Department of Genetics and Development, I have taken a split appointment with the Department of Entomology and have taken over the teaching of the insect taxonomy course from Professor Selander.

Field work was resumed this past year and with Kurt Redborg, now in residence in southern Illinois, and Dr. Joseph Beatty of Southern Illinois University, projects on the behavior and ecology of several interesting groups of larval Neuroptera are being pursued in this part of the state. Also in connection with this work, several visits to Gainesville and the Archbald Research Station in Florida have done much to dispell the horror of cornland.

Robert L. Metcalf

1974-75 has been devoted to teaching, research, and writing. We have been emphasizing Pest Management in Entomology 319 as rapidly as our expanding knowledge permits and with Bill Luckmann have edited and contributed extensively to a new textbook, "An Introduction to Insect Pest Management," which will be published by John Wiley in May 1975. It should greatly improve instruction in this course. The Proceedings of The Rockefeller Foundation Conference at Bellagio, Italy, April 1974, will be published this summer by John Wiley, "Insecticides for the Future: Needs and Prospects," edited by R.L. Metcalf and John McKelvey, Jr. We plan to use this book in Entomology 420.

Research with 5 post doctoral and 9 graduate students has been exciting with emphasis on model ecosystem studies of the environmental fate of pesticides, carcinogens, and veterinary drugs. We are also studying new biodegradable DDT analogues, structure-activity correlations with DDT analogues, carbamates, and insect growth regulators, the ecosystem fate of organochlorine pollutants in Lake Decatur, aging and under stress in Musca and Phormia. Ph.D.s were completed during the year by Joel Coats and Keturah Reinhold and prelims were passed by Li-chun Chio and Dan Brown.

Peter W. Price

The biggest event of this year and the one with the most permanent impact was the arrival of Gavin Andrew on April 30, 1974, an eight and a half pound lump who has grown rather rapidly to a 25 lb ball of energy and mischief at one year. My students claim that he is already writing some of my scientific papers for me, but I am not sure whether to infer that they think he has inherited his mother's brains or whether my papers read as if I am entering my second childhood! In spite of radical change in life style, I was able to complete the final draft of my book titled "Insect Ecology" to be published by Wiley Interscience in August 1975. I can have sample copies sent to anybody interested in adopting the book for a course. I also organized a symposium on "Evolutionary strategies of parasitic insects and mites" for the National meetings of the Entomological Society of America in Minneapolis. This proved to be very rewarding and educational for me. It has stimulated me to attempt an integration of general concepts on the evolution and ecology of parasites on both plants and animals. A summer vacation in England to show off the addition to the family was an enjoyable interlude. Unremarkably teaching and editing duties seem not to have diminished in the past year.

Lewis J. Stannard, Jr.

Besides working on thrips larvae, associating them with their adults and preparing keys to instar II, I have prepared a revision of certain antimimicing thrips, Oedaleothrips and relatives from over the world. There are four genera involved, some authors to the contrary notwithstanding. So closely do they resemble ants that I have known experienced thrips collectors to reject them in the field. Little is known of their habits.

Finally, after ten years of collecting, my data on periodical cicadas has been published (free from the survey). Only five broods occur in Illinois and each has a fairly precise range, rarely overlapping with another brood. I have the "gut-feeling" that only one species exists but I didn't have the temerity to suggest outright in print that the three supposed species might be merely forms of each other. Strange dimorphisms occur in other Homoptera, as I found years ago in scale-insects, so why not also in cicadas? Good clues to the species problem might lie in Champaign County where a 17-year brood and a 13-year brood inhabit the same Sangamon River gallery forest, next emerging in 1980 and 1985, respectively.

Every weekend is spent in Golconda in our Victorian house overlooking the Ohio River. Entomological visitors are always welcome.

James G. Sternburg

During the past year, my research has followed two different lines. With Gil Waldbauer, work with saturniid moths has progressed considerably. The environmental clues involved in the termination of diapause are being investigated, with the hope that a clearer understanding of the processes involved can be obtained. We are also continuing work with different geographic races of cecropia.

In addition to diapause studies, various aspects of mimicry are being studied. These involve local and also exotic species which form mimicry complexes.

During the past year, Willard Woodward completed his doctoral work. This was on the effects of DDT and related compounds on the sensory organs of normal and resistant houseflies.

It was a good year, with our son accepted for next fall as a freshman here at the University of Illinois. We didn't travel last year, so there is little to report. I can say that the fishing in central Illinois leaves much to be desired.

My teaching duties continue as before in Entomology 410 and 301 for insect morphology, Entomology 312, a summer course for teachers, and Entomology 118, a course entitled "Insects, Man and the Environment."

G. P. Waldbauer

I am still working on a wide variety of research projects--probably too wide, but all of them are exciting and it's very difficult to give one up. With Marcos Kogan, Mike Irwin and other entomologists of the Illinois Natural History Survey, I continue research on the insects associated with soybeans, especially on the bionomics, phenology and food plants of the bean leaf beetle. One of our graduate students, Lee Ann Turner, is doing a Ph.D. dissertation on the plants with which the bean leaf beetle is associated during the year. Jim Sternburg and I continue our work on the termination of diapause and the phenology of saturniids. This year we obtained cecropia pupae from several sites in Illinois, ranging from Chicago to the southern tip of the state. We will soon have interesting information on the latitudinal variations of the diapause terminating mechanism. Mimicry, especially by flies of the family Syrphidae, continues to be an exceptionally fascinating study. Graduate student Chris Maier continues to work on the bionomics of certain mimetic Syrphidae--especially Mallota spp. and Spilomyia spp. Graduate student Dave Evans is working on the behavior of bird predators of mimetic Syrphidae.

Last summer my daughter Susan and I toured the Gaspé peninsula of Québec, an exceptionally beautiful and interesting area with abundant wildlife. We saw several moose and bear. Susan caught two fifteen-pound cod and we visited Bonaventure Island off the tip of the peninsula where we saw thousands of nesting gannets, kittiwakes, murrets and auks. Over the Christmas vacation the whole family camped near Bahia Honda Key in Florida. We spent most of our time basking in the hot sun, but did some bird watching and shell collecting and visited Key West and Disney World.

Judith H. Willis

Last summer was truly exceptional for we succumbed to the joint lures of Dave Denlinger's presence in Nairobi and the Seventh International Symposium on Comparative Endocrinology in Tsavo National Park and spent a month in Africa. Dave had arranged a week's safari for us (and Gottfried Fraenkel, Lynn Riddiford and Jim Truman) and his arrangements included his services as chauffeur, guide to flora and fauna, and general commentator on all aspects of African life. Judy Denlinger sent us forth into the wilds of Africa (luxurious lodges every night, hot showers, delicious food) fortified with a massive package of chocolate chip cookies. We became avid birdwatchers (there is a Peterson's Guide to East Africa), admired insects and got within inches of giraffe, elephants, lions and dozens of smaller but even more fascinating creatures. Fortunately we had the safari before the meetings so were able to tear ourselves away from waterhole watching and could listen to Gottfried's talk commemorating the 40th Anniversary of his first experiments on fly hormones and to many other at this magnificently run meeting. But when my turn came, it was strange to speak knowing that there were zebra and baboons right outside the lecture hall.

We stopped off in Cairo on the way home to see the pyramids and museum and arrived in England just in time for the 50th Anniversary meeting of the SEB. Many old friends from our former stays in Oxford and Cambridge were at the meeting and it was almost as if the entire thing had been set up for our convenience.

We finished off the year by attending the Christmas meetings of the ASZ, primarily to attend the symposium honoring Ladd Prosser, but I gave a paper there and we saw a selection of the Truman-Riddiford slides of our trip.

Now we are making final plans for our sabbatical next year. John and I have each been approved by the U.S. National Academy for three months in Prague and we're waiting for final confirmation from the Czech Academy. We hope to spend part of our time working in our own labs free of the distractions of students, committees, and assorted crises. I have been having excellent luck with culturing wing epidermis and getting it to make scales in response to ecdysone and am looking forward to having time to work intensively on this.

1974 PUBLICATIONS OF THE DEPARTMENT

DELCOMYN, FRED, Assistant Professor

Articles

Processing neurophysiological data on a minicomputer. Decuscope, 13, 1:8-11.

A simple system for suction electrodes. Journal of Electrophysiological Techniques, 3, 1:22-5.

FRAENKEL, GOTTFRIED, Professor, Emeritus

Articles

With P. Sivasubramanian and S. Friedman

Nature and role of proteinaceous hormonal factors acting during puparium formation in flies. Biological Bulletin, 147:163-185.

With P. Sivasubramanian and H.S. Ducoff

Effect of X-irradiation on the formation of the puparium in the fleshfly, Sarcophaga bullata. Journal of Insect Physiology, 20:1303-17.

With N. Ratnasiri

The physiological basis of anterior inhibition of puparium formation in ligated fly larvae. Ibid., 105-19.

With N. Ratnasiri

Anterior inhibition of pupariation in ligated larvae of Sarcophaga bullata and other fly species: Incidence and expression. Annals of the Entomological Society of America, 67:195-203.

FRIEDMAN, STANLEY, Professor

Articles

With G. Fraenkel and P. Sivasubramanian

Nature and role of proteinaceous hormonal factors acting during puparium formation in flies. Biological Bulletin, 147:163-85.

GHENT, ARTHUR W., Professor

Articles

Theory and application of some nonparametric statistics. II. Normal approximations to the Wilcoxon two-sample and paired-sample tests, and two related tests. The Biologist, 56, 1:1-31.

Theory and application of some nonparametric statistics. III. Spearman's rho and the "rankit" substitution as measures of rank-order correlation. The Biologist, 56, 4:130-151.

HORSFALL, WILLIAM R., Professor

Articles

Effect of simulated seasonal thermal conditions on hatching of eggs of a univoltine mosquito. Annals of the Entomological Society of America, 67:991-2.

Heteromorphic development of aedine mosquitoes reared at abnormal temperatures. Annales Zoologici Fennici, 11:224-36.

HUMMEL, HANS E., Assistant Professor

Articles

With R.S. Kaae, H.H. Shorey, Lyle K. Gaston

Sex pheromones of Lepidoptera: disruption of pheromone communication in Trichoplusia ni and Pectinophora gossypiella by permeation of the air with nonpheromone chemicals. Environmental Entomology, 3, 1:87-9.

JAYCOX, ELBERT R., Professor

Articles

With W. Skowronek, G. Guynn

Effect of anaesthesia of honeybee queens on their attractiveness to workers. In Polish. Pszczelnicze Zeszyty Naukowe, 17:11-5.

With W. Skowronek

Effect of carbon dioxide on the honeybee workers. In Polish. Pszczelnicze Zeszyty Naukowe, 18:107-19.

With W. Skowronek, G. Guynn

Behavioral changes in worker honeybees (Apis mellifera) induced by injections of a juvenile hormone mimic. Annals of the Entomological Society of America, 67, 4:529-34.

With G. Guynn

Comparative development of foraging and brood production in honeybee colonies established on comb and on foundation. Journal of Apicultural Research, 13, 4:229-33.

LARSEN, JOSEPH R., Professor and Head

Articles

With G.R. Wilson

Debraining and diapause development in Manduca sexta pupae. Journal of Insect Physiology, 20:2459-73.

With W.B. Owen, L.G. Pappas

Functional units in the labellar chemosensory hairs of the mosquito Culiseta inornata (Williston). Journal of Experimental Zoology, 188, 2:235-48.

With C.C. Yu, G.M. Booth, D.J. Hansen

Fate of carbofuran in a model ecosystem. Agricultural and Food Chemistry, 22, 3:431-4.

With C.C. Yu, G.M. Booth, D.J. Hansen

Fate of bux insecticide in a model ecosystem. Environmental Entomology, 3, 6:975-7.

MACLEOD, ELLIS G., Associate Professor

Articles

With J.K. Sheldon

Studies on the biology of the Chrysopidae IV. A field and laboratory study of the seasonal cycle of Chrysopa carnea in central Illinois (Neuroptera: Chrysopidae). Transactions of the American Entomological Society, 100:437-512.

MCCLURE, MARK S., Graduate Teaching Assistant

Articles

Biology of Erythroneura lawsoni (Homoptera: Cicadellidae) and coexistence in the sycamore leaf-feeding guild. Environmental Entomology, 3:59-68.

METCALF, ROBERT L., Professor

Books

With J.N. Pitts

Advances in environmental sciences and technology. Vol. III. John Wiley & Sons, New York, 385 pp.

With J.N. Pitts

Advances in environmental sciences and technology. Vol. IV. John Wiley & Sons, New York, 382 pp.

Articles

A laboratory model ecosystem to evaluate compounds producing biological magnification. Essays in Toxicology, 5:17-38.

Use of chemical relationships in design of DDT-type insecticides. Annual Reports in Medicinal Chemistry, 9:300-8.

With J.R. Coats, I.P. Kapoor

Metabolism of the methoxychlor isostere, dianisylneopentane, in mouse, insects, and a model ecosystem. Pesticide Biochemistry Physiology, 4:201-11.

With C.C. Yu, K.S. Park

Correlation of toxicity and acetylcholinesterase inhibition in 2-alkyl substituted 1,3-benzodioxolyl-4 N-methyl carbamates. Ibid., pp. 178-84.

With An-horng Lee, C.W. Kearns

Purification and some properties of house cricket (Acheta domesticus) acetylcholinesterase. Insect Biochemistry, 4:267-80.

With D.K. Sell, G.S. Whitt, Lu-ping K. Lee

Enzyme polymorphism in the corn earworm, Heliothis zea, hemolymph esterase polymorphism. Canadian Entomologist, 106:701-9.

With M.E. Welborn, R.E. Borchard, L.G. Hansen

Extraction and analysis of Arochlor components in blood. Journal of American Association of Agricultural Chemicals, 57:1248-52.

With L.G. Hansen, I.P. Kapoor

Biochemistry of selective toxicity and biodegradability II. Comparative in vivo and microsomal O-dealkylation by mice and flies. Comparative General Pharmacology, 5:157-63.

With R.E. Borchard, L.G. Hansen, W.G. Huber, M.E. Welborn

Pharmacokinetics of Arochlor 1254 components after intravenous administration to swine and sheep. Archives of Environmental Contaminated Toxicology, 2:179-92.

With An-horng Lee, J.R. Sanborn

Investigations into carbamate insecticide selectivity. I. Evaluation of potential selectophores. Pesticide Biochemistry Physiology, 4:67-76.

With K.R. Solomon

The effect of piperonyl butoxide and triorthocresyl phosphate on the activity and metabolism of altosid (isopropyl 11-methoxy, 3,7,11-trimethyl-dodeca-2,4-dienoate) in Tenebrio molitor L. and Oncopeltus fasciatus (Dallas). Ibid., pp. 127-34.

PAPPAS, LARRY GEORGE, Graduate Research Assistant

Articles

Larval rearing technique for Culiseta inornata. Mosquito News, 3, 4: 604-5.

PRICE, PETER W., Assistant Professor

Articles

Strategies for egg production. Evolution, 28:76-84.

Energy allocation in ephemeral adults. Ohio Journal of Science, 74:380-7.

With B.J. Rathcke and D.A. Gentry

Lead in insects: evidence for biological concentration. Environmental Entomology, 3:370-2.

Book Reviews

Ecology, by R.E. Ricklefs. Ecology, 55:458-9.

Insect population ecology: an analytical approach, by G.C. Varley, G.R. Goadwell and M.P. Hassell. Ibid., pp. 1431-2

STANNARD, LEWIS J., JR., Professor

Articles

Thysanoptera. The New Encyclopaedia Britannica, Macropaedia, 18:367-9
March 1974.

Atractothrips mockfordi, a new species from Mexico (Thysanoptera: Phlaeothripidae). Proceedings of the Entomological Society of Washington, 76:45-8.

STERNBURG, JAMES G., Professor

Articles

With A.G. Scarbrough, G.P. Waldbauer

Feeding and survival of Cecropia (Saturniidae) larvae on various plant species. Journal of Lepidopterists' Society, 28, 3:212-19.

With J.H. Willis, G.P. Waldbauer

The initiation of development by early and late emerging morphs of Hyalophora cecropia. Entomologia Experimentalis et Applicata, 17:219-22.

WALDBAUER, GILBERT P., Professor

Articles

With M.P. Nichols, M. Kogan

The literature of arthropods associated with soybeans. III. A bibliography of the bean leaf beetles, Cerotoma trifurcata and C. ruficornis (Coleoptera: Chrysomelidae). Illinois Natural History Survey Biological Note, 85, 16 pp.

With J.H. Willis and J.G. Sternburg

The initiation of development by early and late emerging morphs of Hyalophora cecropia. Entomologia Experimentalis et Applicata, 17:219-22.

With Scarbrough, A.G. and J.G. Sternburg

Feeding and survival of *Cecropia* (Saturniidae) larvae on various plant species. Journal of Lepidopterists' Society, 28, 3:212-19.

WALKER, WILLIAM F., Graduate Teaching Assistant

Articles

Hormonal-induced pathologies. In Insect Diseases Vol. II, ed. by G.E. Cantwell. Marcel Dekker, Inc., New York.

Responses of selected Thysanoptera to colored surface. Environmental Entomology, 3:295-304.

WILLIS, JUDITH H., Associate Professor

Articles

Morphogenetic action of insect hormones. Annual Review of Entomology, 19:97-115.

With G.P. Waldbauer and J.G. Sternburg

The initiation of development by early and late emerging morphs of *Hyalophora cecropia*. Entomologia Experimentalis et Applicata, 17:219-22.

With M.F. Ruh

Synthesis of blood and cuticular proteins in late pharate adults of the *cecropia* silkworm. Journal of Insect Physiology, 20:1277-85.

ALUMNI NEWS

We are happy to share with you responses received this year from alumni who have taken the time to remove the last sheet of the Newsletter and return it to us so that we might pass on activities and accomplishments of many of your former colleagues during the past year. Especially this year we encourage all of you to take the time to fill out the information page and share with us your suggestions and ideas for the coming centennial celebration in the Department. We appreciate all of our alumni and hope you have a sense of belonging and will participate with us as we celebrate this significant event in entomology at Illinois.

Also, we appreciate this opportunity to share with you the accomplishments of our present graduate students, those completing their work and looking for positions. We hope you will take the opportunity to look at their talents and share with us positions that might be available.

LUSETTIE BLEVINS

Home Address: Atwater, Illinois 62511

Recent Travels for Business or Pleasure: Went to Cincinnati, Ohio for a church meeting in October 1973. Spent five weeks in Florida and Washington, D.C. in March and April 1974.

Suggestions or Comments concerning the "Newsletter:" I am always glad to get the Newsletter. I look for news of the Class of 1924. I hope to be on the Campus for the Fiftieth Anniversary of the graduation of the Class of '24 in October 1974.

ROBERT W. CLEGERN (Bert)

Home Address: 5519 Aspen Valley
San Antonio, TX 78242

Business Address: Chief, Entomology Branch
Epidemiology Division
USAFSAM
Brooks AFB, TX 78235

Current Research Interests or Recent Publications: Current study interest: Entomological and environmental field evaluations of aerial spray operations at USAF installations; epidemiological aspects of chronic low-level exposures to Chlordane. Publication: Clegren, R.W. & S.G. Termaath. 1974. Environmental survey of the Phoenix Islands, Central Pacific Ocean, USAF Environmental Health Laboratory, Kelly AFB, TX. Technical Report.

Papers Presented: "USAF Research Activities in Medical Entomology" and "Insects as Indicators of Water Quality" presented at 1974 Tri-Service Military Entomology Conference, Ft. Sam Houston, TX.

Recent Travels for Business or Pleasure: Business: Vandenberg AFB, CA, Los Angeles AFS, CA, Homestead AFB, FL, Wright-Patterson AFB, OH, and Washington, D.C. Pleasure: Orange County, CA, Hartford, CT, and central Texas.

Family News or Other Items of Interest: Carol is expecting a baby (girl) in late June.

HERBERT LIPKE

Business Address: Department of Biology
University of Massachusetts/
Boston, Harbor Campus
Dorchester, MA 02125

Current Research Interests or Recent Publications: 1) Melanins in Invertebrate Immunity. (J. Scanlin and K. Maramorosch, Eds.) Academic Press, New York. 2) Protomer Stability and Sclerotization, BBA., 351:348 (1974). 3) Molecular Weight of Chitin in Festschrifte for A. Glen Richards (Hepburn, W. Ed.) Elsevier, 1974. 4) Non-identity of Cuticle Glyco Peptides, Biochemical Journal, In Press.

Family News or Other Items of Interest: I am now married to a grandmother. As Chairman of the Department I am not permitted to have any interests.

DICK LIPSEY

Business Address: Velsicol Chemical Corporation
Rt. 2 Box 298
Lithia, FL 33547

Current Research and Recent Publications: Haney, A., Lipsey, R.L. (1973) Accumulation and effects of methyl mercury hydroxide in a terrestrial food chain under laboratory conditions. Environ. Pollut. 5, 305-16. I am currently co-ordinating research with entomologists at the University of Florida, University of Georgia and the USDA labs at Tifton, Georgia for the control of the major insect species in cotton, soybeans, corn, tobacco, peanuts, citrus, sugarcane, pasture, and Florida vegetables.

Recent Travels for Business or Pleasure: I saw many old friends at the Illinois breakfast at the ESA meeting in Minnesota last December. The North-central Branch and the Southeast Branch Meetings.

Family News: No additions to the family. Daughter Cheryl (6) and wife Mary Ann.

ROBERT D. MORDEN

Business Address: Department of Biology
University of Wisconsin
Superior, WI 54880

Current Research and Recent Publications: Was the director of the biotic division of the Environmental Impact Assessment Report for Deluth-Superior Harbor.

FRANKLIN C. NELSON

Home Address: 2601 N.E. 14th Street
Apt. 127
Pompano Beach, FL 33062

Current Research Interest or Recent Publications: None. Retired 15 years and love it!

Recent Travels for Business or Pleasure: Trip thru northern Florida and on up to Anderson and Greenville, South Carolina, with the possibility to moving to a cooler climate in the near future. Just too hot and humid here even during the winter, both this year and last year. Also, the traffic in this N.E. corner of Florida is just about impossible. We leave here May 28 for New Jersey and plan a trip to California late in the

summer. Our oldest granddaughter was just accepted at Case Western as a major in Violin. She has been a part-time student at Julliard. The second oldest is a sophomore at Amherst in Education. My son and daughter gave us a very fine 50th Anniversary party at my son's home in Westfield, New Jersey June 29, 1974. Now we are looking forward to the 75th.

DAVID C. NEWTON

Business Address: Department of Biological Sciences
Central Connecticut State College
New Britain, CT 06050

Current Research Interest or Recent Publications: My current research interest continues to be in honeybee behavior. My masters students and I have been investigating cannibalism, removal of debris from the conony and hygenic behavior in relation to the bee disease, American foulbrood. At this time we are investigating the use of ethylene oxide for fumigation of diseased hives and combs in conjunction with George Cantwell USDA ARS. Results of these fumigation studies have been very successful to date. Recent publications are: Bee notes for orchardists. In Fruit Notes 39(3):1-4. University of Mass. Cooperative Extension Service (1974). Social organization in Crayfish. In Animal Behavior in Laboratory and Field. Freeman. (In Press) (1975).

Recent Travels for Business or Pleasure: Our recent summers have included trips to Cape Cod, Washington, D.C., and Canada.

Family News or Other Items of Interest: Janice is teaching at Noah Wallace Elementary School and Carol and Gail are in 10th and 8th grades and doing well.

STEPHEN J. (STEVE) PARSHALL

Business Address: Box 1173
VA Hospital
Hines, IL

Current Research Interests or Recent Publications: Nuclear Medicine Technology.

Recent Travels for Business or Pleasure: Nuclear Medicine Society Meeting in San Diego, June 1974.

Family News or Other Items of Interest: My parents sold their house in Winnetka. My brother, Joel, got married on June 1 of this year. After a hiatus of nearly 8 years, I am starting up a new collection of insects. By the way, I donated my previous collection of insects (going back to 1955) to the University of Louisville, Biology Department's budding insect collection (Dr. Charles V. Covell, Curator).

HANK PIERCE, JR.

Home Address: 3515 Gresham Ct.
Pleasanton, CA 94566

Current Research Interests or Recent Publications: Currently product representative, Ectoparasiticides. Animal Health, Shell Chemical Company.

ROBERT SNETSINGER

Business Address: Department of Entomology
106 Patterson Building
The Pennsylvania State University
University Park, PA 16802

Current Research Interests or Recent Publications: Recently published, Frederick Valentine Melsheimer, Parent of American Entomology, a republication of America's first book on entomology with a biographical sketch on its author who was a noted clergyman and German-American scholar of the period following the American Revolutionary War. Available from Entomological Society of Pennsylvania, University Park, Pennsylvania. 86 pages, price \$4.00.

HACHIRO YUASA

Home Address: 61 Nakakawara-Machi
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Sakyo-Ku, Kyoto
Japan 606

Business Address: International Christian University
President Emeritus
Chairman, Board of Trustees

Family News or Other Items of Interest: Wife Kiyoko (B.A. Simpson College 1921) died April 22, 1972. Son Yo, B.A. Amherst College, also International Christian University; M.D. Edinborough; now a leprosy specialist serving in Nepal. Yo's wife, Yuko, B.A. International Christian University.

Suggestions or Comments Concerning the Newsletter: Just a word to express my sincere appreciation for the masterly Entomology Newsletter, 1973, which reached me in Kyoto where I live now, after my retirement from the Presidency of International Christian University, Tokyo in 1962. In 1935, I left Kyoto Imperial University where I was the head of the Entomological Department, 1924-1935, to assume the presidency of Dishisha University in Kyoto thereby practically severing my active relation with the world of natural science.

Needless to say that I still cherish my fond memories of my years in Urbana (M.S. 1917, Ph.D. 1920, Natural History Survey 1921). I owe an everlasting debt of gratitude to the "then" faculty of the Department of Entomology, especially to Professor MacGillivray.

NEWSLETTER MAILING LIST - 1974

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