

NEW YORK STATE VETERINARY COLLEGE

CORNELL UNIVERSITY

ITHACA, NEW YORK

*"I heard the bells on Christmas Day
Their old familiar carols play. . ."*
Henry Wadsworth Longfellow



CHRISTMAS, 1964

DEAR CORNELLIAN:

Norman Cousins, man of letters, distinguished journalist and champion of education, has said that "there are no *mere* men. Moral splendor comes with the gift of life. Each man has within him a vast potential for identification, dedication, sacrifice; mutuality. Each man has unlimited strength to feel human oneness and act upon it. . . . The tragedy of life is not in the fact of death, but in what dies inside a man while he lives.

"No man need fear death; he need fear only that he may die without having known his greatest power—the *power of his free will to give his life for others*. If something comes to life in others because of you, then you have made an approach to immortality."

How well these thoughts touch those familiar words of another great author, whom we know as John: "For God so loved the world that He *gave* His only begotten Son, that whosoever believeth in Him should not perish but have everlasting life."

It seems to me that the words which set forth these truths express the deep significance of Christmas. How wonderful it is that in the free world we can stand up and be counted and can give ourselves completely to the spirit of this marvelous season. Yet there are those in other parts of the world who are denied this privilege.

We seem to be living in an age of horizontal and vertical dimensions; an age for the exploration of outer space, with an urgent need to explore the inner space of individualism. And if each of us has "unlimited strength to feel human oneness" and unlimited capacity to act upon it, what better season for reflection, introspection and circumspection than the wonderful season which we call *Christmas*. Perhaps these quotations might serve as horizontal and vertical guidelines for the great adventure in which all men search for answers to the probing questions, *Who am I?* and *What is my purpose in life?* It seems to me that the horizontal axis, embodied in the expression of Norman Cousins, relates man to man; and the vertical axis, found in the quotation from the Gospel according to John, relates man to God, and, of course, God to man. The fulcrum which supports these intersecting guidelines is the story of the Nativity, with its wonderful spirit of expectancy and of absolute giving; its reassurance to a bewildered world. How often the magnetic capacity in this old, old story has been able to draw out the compassion, understanding and fine qualities of spiritual strength in all men of good will. Christmas is a time when we throw off the blinders that block our peripheral vision; a time when its joyful carols lift our eyes a bit higher so that we might see beyond the timid limitations of our self-made horizons; a time when its friendly laughter and its splendor helps us to find new vitality, new meaning and new purpose in life. May I, then, in this exhilarant season of hope, happiness and good fellowship, express to you the wishes of your many friends and colleagues on the faculty and staff of this College for a very *Merry Christmas!*

As I prepare to recount for you something from the great pages of last year's history of the College, I find much to tell you, and the question then is how shall it be told? Since the strong pulse of the College is the story of its people, and the progress of the institution the story of their triumphs and accomplishments, I shall lift the stylus which records the continuous account of all events and take from its writings samples of happenings which show how each department is constantly building; constantly reaching upward and upward toward the high calling of academic excellence. And with it all our central objective is knowledge and our purpose better and better instruction of young minds; eager minds with unlimited capacity and a never ceasing search for greater understanding.

Our research is interdisciplinary but our didactic program still is well defined in eight academic departments. The story which follows, therefore, will touch some of the highlights in the life of each department.

But before moving from one department to another in this informal

narrative, I am sure you will be interested to know that we have a fine group of young men and women in the professional degree and advanced degree programs and that it is an invigorating experience to work with them. In the new class of sixty students which matriculated in 1964, 66% have had three or more years of pre-veterinary college education. This has been the trend for the past several years. We have eleven candidates for the M.S. degree and thirty for the Ph.D. degree. Also, there are thirteen post-doctoral students registered in the Graduate School who are studying at the Veterinary College but are not degree candidates. Under joint sponsorship of the National Science Foundation and the Atomic Energy Commission, the Department of Physical Biology of the Veterinary College offers training in biomathematics, biological effects of radiation and radioisotope tracer techniques in an Academic Year Institute. This is not a new program for the College but it has gained in popularity and shows promise of extended continuation. Eleven special students, all college teachers of biology, were registered in this program, which has been designed and financed to handle ten students, selected on a competitive basis. Further, 195 students were enrolled in thirteen special courses offered by the Veterinary College for undergraduates registered in other colleges at Cornell.

Our systematic, scholarly and forward-looking Head of the Department of Anatomy, Robert E. Habel, has been appointed Vice Chairman of the International Committee for Veterinary Anatomical Nomenclature. In August he participated in meetings of this committee in Hanover, Germany. His major interest in research has continued to be in the postnatal cytological changes in the mucosa of the rumen. Using conventional light microscopy, electron microscopy and histochemical techniques, he has been studying the role of the conical papillae, structures which undergo hyperplastic or involutionary changes, depending upon the nature of the diet. In the teaching responsibilities of the Department, he has been anxious to expand the instruction in neuroanatomy, particularly the gross dissection of the brain of the dog. That was accomplished this year. Also, a collection of normal radiographs of both soft and hard tissues was developed for instructional purposes during the first year course on the dissection of the dog. Bob also has been working on a *Nomenclature of Gross Anatomy* for the past several years, has prepared a *Dissection Guide To The Ruminants* and has been devoting many personal laboratory hours to the anatomy of the ox, sheep and goat. His teaching responsibility continues to be in applied anatomy.

Just prior to his departure for a sabbatical leave as a Fellow in the Henry Phipps Institute, School of Medicine, University of Pennsylvania, Howard E. Evans, Professor of Anatomy on our staff, saw the first published copies of Malcolm E. Miller's *Anatomy of the Dog*.

Howard Evans and George C. Christensen '49, now Dean of the College of Veterinary Medicine, Iowa State University, edited and completed this magnificent work to which Mac Miller '34 devoted his lifetime. We are all so pleased that these fine men and the nine distinguished contributing authors of several chapters were willing and anxious to complete the task. Special accolades of praise for the excellence of their work also go to artists Marion Newson and Pat Barrow, who produced the majority of the superb illustrations. You and I share in Mary Miller's happiness in seeing this great text finished and we also share in her sadness that Mac, who spent more than twenty years in the preparation of the book, is not here to see the fine work published.

Howard will spend six months in Philadelphia and then six months in Switzerland. He is studying congenital malformations in the lamb. Some of you will remember the seven foot rattlesnake which he acquired as a peppery youngster while he, our naturalist-anatomist, was on desert maneuvers about fourteen years ago. He kept it in his office after Erica decided that either she or the snake would have to leave the Evans' residence. Well, the old snake expired during this last year; kidney disease. His coiled skeleton now occupies a prominent spot among Howard's many osteological collections.

Alexander (Sandy) de Lahunta '58 completed the requirements for the Ph.D. degree, and was appointed Assistant Professor of Veterinary Anatomy. He is serving also as Acting Secretary of the College in Howard Evans' absence. Sandy is a vigorous worker, deeply interested in neurology. He has been studying clinical cases of neurological disease and then tracing affected nerve pathways and lesions histologically after autopsy. He and John Cummings '62 work closely together on such studies. John is a Ph.D. candidate in anatomy. Both men participate in the neurological clinic and ward rounds at the Upstate Medical Center each week.

Otto Wolfgang Sack has filled the position of Associate Professor of Veterinary Anatomy vacated by the resignation of Al Stinson, who joined the faculty at Michigan State University. Wolf holds the D.V.M. degree from the Ontario Veterinary College and the Ph.D. from the University of Edinburgh, Scotland. His Ph.D. thesis, an extensive and exceptionally impressive manuscript, was written on the embryology of the dog. He has done a fine piece of work in wax plate reconstruction of embryos. His teaching responsibilities this year will be chiefly in the gross anatomy of large animals; a comparative anatomy of all species.

Keith M. Dyce, Senior Lecturer in Veterinary Anatomy at the Royal Veterinary College, University of London, will be with us for a year as

Visiting Associate Professor, teaching gross anatomy and vertebrate morphology.

Filling Howard E. Evans' post while he is on sabbatical leave is G. Keith Benson, Visiting Associate Professor of Anatomy. He is Lecturer in Veterinary Histology in the Department of Veterinary Anatomy, University of Liverpool. He is a prominent research worker in the endocrine control of lactation, having had ten years experience at the British National Institute of Dairying. Using the electron microscope he is studying the morphology of milk secretion during his stay in Ithaca. He will be teaching developmental anatomy and microscopic anatomy during the next year.

Alvin Ferner Sellers, known to some of his many friends as Ferner and to an equal number as Al, Head of the Department of Physiology, has been busy remodelling laboratory space in the physiology wing to provide working space for Bob Dunlop in Pharmacology, Arthur Aronson in Toxicology and Alan Dobson in Physical Chemistry. The American Physiological Society nominated Al for appointment to the National Research Council. This appointment was made by President Frederick Seitz of the National Academy of Sciences. He will represent the Society in the Division of Biology and Agriculture. He also served as Chairman, Section on Biochemistry-Physiology-Pharmacology, 17th World Veterinary Congress, Hanover, Germany. Further, he has served as consultant to the United States Public Health Service, General Medicine Study Section, National Institutes of Health. Bob Dunlop, who has been doing a superb job in pharmacology, will be leaving the College to become Head of the Department of Physiology in the new Veterinary College at the University of Saskatchewan in Saskatoon, Canada. Larry Smith, the new Dean of that College, is a Canadian who earned the Ph.D. degree in pathology at Cornell under Dr. Peter Olafson. We will miss Bob and his family, and yet we realize that this is a fine opportunity for him.

Alan Dobson spent a year in the department a couple of years ago and then returned to Scotland. It is now our pleasure to report to you that we are fortunate in having him back with us again. Alan is a physical chemist who has worked in physiological research at the Rowett Institute in Aberdeen and he is with us now as Associate Professor of Physiology. He is an Englishman and his wife, Marjorie is a Scot. Both have keen quick minds and the fountain of laughter overflows when they exchange eponymic epitaphs at the slightest provocation. I think it is safe to say that Marjorie usually wins the sorties.

Dr. Jennifer May Hanson, an organic and physical chemist from the University College in London, is working for a year in enzyme studies with John Wootton, Associate Professor of Physiological Chem-

istry. John has been studying the electrochemical binding mechanism of coenzymes in inert protein, to form active enzymes. It is essential that this mechanism be understood if we are to comprehend the action of some drugs and the mode of action of enzymes. You can see, therefore, that we have a good representation from the British Isles at the College; a fine group of talented and personable scientists, who will add their abilities to those of our staff, thus providing an enriched experience for staff and students alike.

Arthur and Marilyn Aronson and family joined the Veterinary College family this fall and on November 18 their family was joined by a brand new daughter, born at Tompkins County Hospital. Arthur holds the B.S. and D.V.M. degrees from Minnesota, the M.S. from Cornell University (under H. Hugh Dukes) and the Ph.D., also from Minnesota. His doctoral thesis was in heavy metal toxicology, and Arthur plans to develop a program of instruction and research in veterinary toxicology as part of the course sequence in pharmacology.

After an illness of almost a decade, Mrs. Louis (Wanda) Nangeroni passed away last March. Lou has remarried and it has been our pleasure to welcome Alice into the fold of our growing College family. She is a very lovely person and I understand that she can handle a plane with about the same dexterity as the master pilot of the East Hill Flying Club, Doctor Lou himself. Lou continues to maintain a strong interest in electronarcosis.

Ed Stevens and his wife, Jackie, and family have built and moved into a very attractive new home in Ellis Hollow. They were in Copenhagen two years ago and if you have ever been in that delightful city, you will understand why we chewed our fingernails, hoping they would not decide to stay there. Ed studied at the Institute of Biological Chemistry, University of Copenhagen. Subsequently, we bit the same nails again, awaiting the return of other seafaring wanderers from the Department of Physiology, the Emmett Bergmans. They spent part of their year abroad in the Rowett Research Institute in Aberdeen, and part at Cambridge University, England, where Emmett was a National Science Foundation Fellow. It is quite gratifying indeed to note that the experience in laboratories of outstanding British and European scientists has both broadened and deepened their research capacities. This is quite a statement, for both these men are outstanding scientists in their own right, recognized authorities on biochemical and biophysical phenomena of absorption, particularly in the rumen, which is a more important organ of absorption even than the intestine. They are also concerned with problems of deranged metabolism, such as ketosis, which may or may not prove to be associated with a high butyric acid intake.

Cyril L. Comar, his wife, Mildred, and younger daughter, Louise, spent last year on sabbatical leave in Zemun, Yugoslavia, where he was Project Manager of a new Research Institute for Radiation Methods in Biological and Agricultural Investigations. In his absence, Robert H. Wasserman served as Acting Head of the Department of Physical Biology and carried the responsibilities well. Bob and his family are now in Denmark, where he is a Guggenheim Fellow at the University of Copenhagen studying mechanisms of ion transport across biological membranes. Fred Lengemann has returned from a year of special service with the Division of Biology and Medicine, U.S. Atomic Energy Commission. Dan Tapper was elected Counselor of the Northwestern Section of the Society of Experimental Biology and Medicine for Cornell University. Jay Georgi '51 has been appointed to an Assistant Professorship in Physical Biology. Jay is a very competent veterinary biomathematician and has been collaborating with John Whitlock, Professor of Parasitology, in a study of blood loss as a function of parasitism, using a large tomb-like and very costly total body counter to measure retention of radioactive iron in parasitized sheep.

Alison P. Casarett, Ph.D., has been serving as Assistant Professor of Radiation Biology and Associate Director (with Cyril L. Comar) of the Academic Year Institute Program in Radiation Biology for College Teachers. This was a new innovation a few years ago. We look forward to its continued development as Alison gives it a full measure of her enthusiasm, energy and outstanding abilities. She is a lively, capable biophysicist, always ready with a pleasant smile and a willingness to go beyond normal expectations of a teacher to be sure that all details of the program are executed under standards of excellence.

Hector Brust-Carmona, a physician-neurophysiologist and member of the Medical Faculty, National University of Mexico, was appointed Visiting Associate Professor in the Department of Physical Biology, collaborating with Edgar L. Gasteiger, who also is a neurophysiologist. Dan Tapper, another competent veterinary biomathematician who is both a physical scientist and biological scientist with a veterinary background, collaborates with both these men.

Living in an ever-changing society and in the early but significant years of the jet age, we are quite mindful that we must be prepared for events that come upon us all too swiftly. Such has been our experience as we approach the end of this year. Myron (Mike) G. Fincher '20, who has served as Head of the Department of Medicine and Obstetrics and Director of the New York State Mastitis Control Program so magnificently since 1941 and who served as Dean of the College for a year in Dr. W. A. Hagan's absence, has elected to retire a year early to accept an appointment as Head, Department of Medicine and Surgery, Faculty of Veterinary Medicine, Kansas State University-United States Agency for International Development

Project, Ahmadu Bello University, Samaru, Northern Nigeria. When great men like Mike, who have contributed so much to the tradition of professional excellence in this College turn over the reins of responsibility to their successors, all the admiration, respect and appreciation which we have for them seems to well up inside us and flows over as we face the "changing of the guard." Mike has the vigor of a battalion of men and the graciousness of a countless host. You will recall that he has been recipient of the coveted Borden Award, was awarded an honorary Ph.D. degree from the University of Thessalonica, Greece, and was named Veterinarian of the Year in 1963 by the New York State Veterinary Medical Society. These are but a few of the tangible ways that his devoted professional service has been recognized. How do we find words to thank him for the immeasurable good that he has done for his profession, for the profound impact that his life has had on so many others; for the present stature of your Alma Mater which he has helped to build so effectively? I can think of no better way of expressing our deep gratitude for the abundance and wholesomeness of his contributions than to borrow those great words from the parable of the talents, "Well done, thou good and faithful servant. . ." We wish him many years of happiness and good health as he takes up another challenge and source of gratification in his distinguished professional career.

Francis H. Fox '45, Professor of Veterinary Medicine, narrated a closed-circuit television demonstration on *Disorders of the Bovine Abomasum* last summer at the 17th International Veterinary Congress in Hanover, Germany, and then visited several other European countries, returning to New York in time to meet his obligations as veterinarian at the New York State Exposition. Later in the fall, he participated in a journey with thirty-eight other veterinarians from New York State to eastern and western Europe. You will find more about this later in this report. As of this writing, Francis has re-established his beachhead in the Ambulatory Clinic and I rather suspect he is enjoying handling calls and teaching students with more satisfaction than he derived as unofficial remote-control pilot of some of the aircraft in parts of Europe. He has been selected by the Organizing Committee, College of Agriculture, to represent the veterinary profession in developing a regional extension program for the livestock industry in New York State. We feel that this indeed expresses a fine vote of confidence in his ability.

Many of you have been waiting to hear that the College will have a position for an Extension Veterinarian. I am pleased to tell you that the State has granted such a position in response to our budget request. Mike Fincher and Al Johnson, Director of the Cooperative Extension Service, College of Agriculture, have been interviewing some excellent candidates. We hope to have the position filled soon.

Steve Roberts '38, never-tiring coach and ghost rider (on every horse) for the polo team, was elected to the Judicial Council of the American Veterinary Medical Association and serves as Vice Chairman. He has also served as Chairman of an Equine Research Committee of the faculty, which completed a herculean task in developing a very ambitious research proposal. This is now undergoing some modification and streamlining, about which we will tell you more later.

You will recall that a few years ago we had the pleasure of reporting to you in the Christmas letter that our outstanding and genial clinical pathologist, John Bentinck-Smith '44 capitulated to the charm of a very lovely girl who became Marjorie Bentinck-Smith. Well, another one of our bachelor hold-outs has gone into orbit. Robert Bryant Hillman '55, Assistant Professor of Veterinary Medicine, and Beverly Anne Brink were married on July 11 at the Saint Catherine of Sienna Church in Ithaca. Francis Fox was best man. After a festive reception, in which it seemed that all of Tompkins County participated, the beautiful and calm bride and handsome and confused groom disappeared to the Canadian mountain lakes, beyond the reach of helpful colleagues who would have liked to decorate the interplanetary space ship (Bob's Oldsmobile) in which they departed. Much to our great relief and happiness they have returned to Ithaca and, although Bob is now back at work, rumor has it that he is still in the daze of nuptial bliss.

Speaking of eligible bachelors, Richard C. Bartholomew '62 has been appointed Assistant Professor in the Department of Medicine and Obstetrics and has been contributing his talents and interests in a very satisfactory manner in the Ambulatory Clinic.

Dick Guthrie '30, Seth Johnson '29 and Lincoln Field '30 are capably operating the Mastitis Control Program, with its six excellent laboratories and fine field staff. Dick and Edith are also growers of spectacularly colorful gladiolas and keep the College offices and many homes well supplied with beautiful bouquets during the flowering season. Linc and Jane Field are avid sports and music enthusiasts and I have often wondered what they do when there is a good game and a good concert going simultaneously. Somehow or other I feel that they manage to see both. Norma Johnson injured her shoulder in the fall, temporarily interfering with her weaving. We trust that she will be back at the loom soon.

The Department of Pathology and Bacteriology has continued in its growth under the able leadership of Peter Olafson '26, who became its Head on July 1, 1946. As you will recall the Olafsons had an interesting although somewhat dusty experience in Africa last year while on sabbatical leave. The continent has so intrigued them that Peter

and Harriet have decided to return to participate in the development of the same new Veterinary College in Samaru, Zaria, Northern Nigeria, to which Mike and Evelyn Fincher soon will be going. Peter will be Head of the Department of Pathology and Microbiology at that college upon retirement from his present position as Head of the Department of Pathology and Bacteriology at Cornell. His distinguished career at Cornell has been responsible in great measure for the outstanding reputation that the College has enjoyed, and his retirement will leave a great void in the life of this institution. Without a doubt he is one of the most outstanding veterinarians in the history of the profession; a man whose brilliant quick mind is as incisive as the studying intensity which so many of us have seen in his eyes. In this day of splintering disciplines he has been the admirable example of a pragmatic scholar whose knowledge of anatomy and physiology, of pathology and microbiology, of clinical medicine and surgery, and of animal behavior and human behavior, with their extrinsic and intrinsic environmental relationships, has always kept his perspective in balance. So often we have felt that his ability to scan a complex problem, to reach a judgment and to predict the ultimate outcome has been so consistently correct that it seems uncanny. At least it seems so until we relate this ability to his understanding of the dove-tailing simplicities and subtleties of life. His quick wink and dry wit have challenged the alert minds in so many of his students that he has become part of the stimulating personalities of more disciples than can be counted. Just look at some of his outstanding students, and in them you will see him. He has served in numerous professional capacities, including President of the New York State Veterinary Medical Society and he has been the recipient of the Borden Award for his outstanding contributions in dairy cattle disease research. It is no wonder, therefore, that we search deeply for words which might express to him not only our own feelings of gratitude but also the feelings of countless generations to come for the impact of his career on veterinary education. Edgar A. Guest, a man with homespun philosophy that plucks at the heartstrings of life as we really find it, wrote a few lines which seem to describe the great caravan of humanity and yet by contrast identify men like Peter Olafson:

"Some men there are who never leave the city's well-worn streets;
They never know the dangers grim the bold adventurer meets;
They never seek a better way nor serve a nobler plan;
They never risk with failure to advance the cause of man."

Peter Olafson has never stepped back from adventure, from challenge, from the burdens of work that an ordinary man could scarcely handle; never worried about failure in his search for knowledge to advance the cause of man. We are indeed fortunate that several of his capable students, upon whom some of his scientific and personal excellence

have rubbed off, are now part of the core of the faculty. I know that your good wishes join ours as we bid the Olafsons bon voyage in this challenging new venture.

During this past year, Donald W. Baker '29 has served tirelessly and effectively as President of the New York State Veterinary Medical Society, and in this office the influence of his pleasant enthusiastic personality has been felt with warmly responsive impact not only in this State, but in others as well.

Our capable pathologist who enjoys a respected international reputation for the superior quality of his work in problems of infertility, Kenneth McEntee '44 was elected to membership in the American Association of Pathologists and Bacteriologists and also the Societa Italiana per il Progresso della Zootechnica. Further, he was selected as co-author of the new international journal of veterinary pathology, *Pathologica Veterinaria*. Early this year, Ken was invited by the central office of the People-to-People Travel Program in Lawrence, Kansas, to organize a delegation of New York State Veterinarians on a mission to visit veterinary colleges, veterinary research institutes, and private practitioners in countries of Europe, on both sides of the "iron curtain." The interest in this mission was so great that two delegations were organized, the second leaving one week after the first, which departed in the last week of September. Ken served as delegation leader and Francis Fox as assistant delegation leader for the first group. I had the privilege of serving as leader of the second delegation. We visited cities in Belgium, Denmark, Sweden, Finland, Russia, Georgia, Poland, Hungary and Germany (Berlin), sampled a variety of foods (and fruit, grain and potato juices), and had a very educational experience in scientific conferences, and in opportunities to learn something about social traditions and customs of a very warm and friendly group of people in all these countries. When the second delegation reached Leningrad and met its two Soviet guides, both young women, one of them lapsed into sighs of ecstasy at hourly intervals, recalling with great delight the charm, virility and humor of Francis Fox. She tried to find his counterpart in the second delegation, but none of us quite made the grade. By this time, imagining how the female grapevine of communication operates, there is no doubt in the minds of any of us that the most effective ambassador supraplenipotentiary from the United States to the Soviet Union has been and probably always will be His Excellency, Ambassador-at-Large Francis Henry Fox.

James H. Gillespie has expanded his research activities into new facilities for virus research in a fine multipurpose tissue culture laboratory suite on the third floor of the main College building. The classroom opposite Dorsey W. Bruner's office has been converted to

tissue culture laboratories, and Jim will be using these facilities to meet the obligations of a grant from the National Institutes of Health for the *Classification of Viruses of Animal Origin*. Working with him will be Kyu M. Lee, M.D., Ph.D., who was appointed Associate Professor of Virology and whose major efforts will be in cytobiology. Jim also continues to serve on a part-time basis as Executive Secretary to the Advisory Committee on Foot-and-Mouth Disease of the National Academy of Sciences.

Dr. Fernando Noronha, a very competent Portuguese veterinary virologist, with whom Charles Rickard '43 worked during his sabbatical year in Tübingen, Germany, has been appointed Associate Professor of Virology and is working in the Oncology Laboratory, presently studying chromosomes in cells from canine tumors and tissue cultures of the same cells. This laboratory is under the stimulating direction of Charles G. Rickard. Also working with him are John E. Post '58, John D. Strandberg '64 and Stephen A. Benjamin '64; all graduate students. Research in problems on oncology is extremely tedious because of the difficulty in isolating and characterizing infectious agents responsible for tumor formation. Conventional serologic methods so useful in characterizing many infectious agents are virtually useless for tumor viruses. Consequently, biophysical techniques are under investigation, using tissue culture systems. To add an additional measure of complexity, it is essential to understand and overcome the phenomenon of immunorejection of transplanted tumors, for it plays a vital role in the dynamics of tumor production. The staff is spearheading a study of this phenomenon.

James A. Baker '40, Professor of Virology and Director of the Veterinary Virus Research Institute, was asked to help design a research facility for a laboratory for vaccine production by the United States Agency for International Development in the Republic of Mali in West Africa. With his contacts there and with Peter Olafson and Mike Fincher in Nigeria, the Cornell banner will be flying quite brilliantly on the African continent.

Dorsey W. Bruner '37, Professor of Bacteriology, continues to serve as Editor of *The Cornell Veterinarian*. He was invited to serve as Chairman, Study Section of Bacteriology and Mycology, Institute of Infectious Diseases, National Institutes of Health. When he and Philip R. Record were working together at the University of Kentucky, they were responsible for much of the early work on typing, classifying and determining the zoological distribution of *Salmonella* serotypes in the United States. Together these two men were the first to transform serotypes of this species from one to another. Dorsey is still doing much of this work. He and his coworkers were the first to show the relationship between blood factors and neonatal isothermolysis in the Thor-

oughbred horse and in swine. It is easy to understand therefore, why he has so many graduate students who have become so proficient in serology.

The research and teaching program in the pathology of nutritional diseases has developed magnificently in the capable hands of Lennart P. Krook. Without a doubt this has been one of the most effective new programs instituted in the College in recent years and the impact of the knowledge developed upon the livestock economy will undoubtedly have far reaching beneficial effects, not only to the livestock producer who has sustained serious losses in the past due to improper management practices, but also upon the consumer, who ultimately pays for the losses through high prices in the markets.

The program in problems of infertility, developed so well by Kenneth McEntee has been strengthened greatly by the services of Alexander J. Winter, who has been devoting his effort to the microbiological problems in reproductive diseases. Also, Kazuya Usui, Associate Professor of Biochemical Pathology, has been studying reproductive steroids; biochemical aspects of abnormal reproductive endocrinology. Henry O. Dunn, Research Biologist, has been studying chromosomal aberrations associated with reproductive diseases and has contributed greatly to the analysis of data through his abilities as a biostatistician. Mitotic failures in chromosome polarization has been found to be a problem in cattle associated with infertility, with the formation of anomalies, with biochemical functional irregularities such as porphoria in the developing fetus, and also with some malignancies.

John H. Whitlock has been developing some fascinating data in his study of the genetically related ecologic interaction in helminthic disease. Apparently rate of oxygen transfer from the hemoglobin of ingested sheep erythrocytes, to satisfy the metabolic requirements of *Haemonchus*, regulates the rate of egg production by the helminth. This research has special interest for biostatisticians since it interlocks with amazing predictability in various mathematical models.

Salmonellosis continues to plague the poultry industry, both in fact and fancy. Outbreaks in some hospitals last year, causing serious distress in a number of patients seemed to set off a chain reaction up and down the eastern seaboard and the press pointed accusing fingers at the poultry industry. Phil Levine '32, Head of the Department of Avian Diseases, would not let the industry be intimidated unjustly and raised some questions that appropriately deflected the accusations. Subsequent to this, he has been serving as a member of the Salmonella Committee of the Poultry and Egg National Board, an industry supported organization working for the promotion of poultry products. Further, he was invited by Dr. James Stoddard, Assistant Surgeon General, U.S. Public Health Service, to participate in a National Conference on Sal-

monellosis in Atlanta, Georgia. All of this shows the importance of having a strong Department of Avian Diseases at the College to serve a large and well organized food producing industry.

Julius Fabricant and his family are spending a sabbatical year in Aarhus, Denmark. Julius is working with Professor Eric A. Freundt, a physician at the Institute of General Pathology in the Medical School, internationally known for his work in mycoplasma infections. Arnold S. Rosenwald, Extension Poultry Pathologist, University of California, will fill Julius' position while he is in Copenhagen. Arnold is an excellent scientist, with 23 years experience in teaching and extension work in poultry disease control.

Early in the year, Ellsworth Dougherty resigned from his position as Director of the Duck Research Laboratory, operated collaboratively by the Veterinary College with the College of Agriculture. This impressive laboratory was first financed by the Duck Growers in eastern Long Island, and its very successful history is a tribute in large measure to the abilities of "Doc" Dougherty, working under the competent Head of the Department of Avian Diseases, Phil Levine. As successor to "Doc," who joined the staff at the Plum Island Animal Disease Laboratory, we welcome William David Urban, V.M.D., from the State of California. Bill has devoted most of his professional career to poultry disease control. After having held several responsible positions in regional poultry diseases laboratories in California, he conducted a very successful private poultry practice in Ontario, California since 1957. He is personable, knowledgeable, and a competent administrative scientist. We are fortunate in having him as a member of the staff.

Bruce W. Calnek '55, is heavily engrossed in his exciting research on avian lymphomatosis and the Rous sarcoma. Clyde I. Boyer, Jr., who devotes his time and energies to turkey disease research and extension service serves also in his spare time as Business Manager of *The Cornell Veterinarian*. It is good to report to you that Clyde has completely recovered from the skiing accident in which he fractured a tibia, but I doubt if his colleagues will ever ease off on the relentless teasing he gets for the accident. He seems to feel that it happened in the Alps while he was gliding down a precipitous slope backwards on a single ski, but there is strong evidence that it occurred when his two skis hit a soft spot in the snow on a slope in back of his home on the Enfield Falls Road in Ithaca. We understand he's shifting his interest to snow shoes.

The Poultry Diagnostic Laboratory at Farmingdale was transferred to the Duck Research Cooperative Laboratory in Eastport, Long Island, due to the urbanization of once rural Farmingdale. Kenneth Hilbert '28, resigned as Director of the Regional Farmingdale Labora-

tory and joined the staff of the Agricultural and Technical Institute in Farmingdale. Succeeding Kenneth Hilbert is Louis Leibovitz, B.A., B.S., V.M.D., a very competent and affable poultry pathologist who is conducting the poultry diagnostic service at the Duck Research Laboratory.

In the Poultry Diagnostic Laboratory in Ithaca, Malcolm C. Peckham '50, Professor of Avian Diseases, continues to carry the lion's share of responsibility, providing diagnostic and consulting service to poultrymen in this area. Mac is quite a tennis player. He is like the golfer who plays every day in the year except when the snow plows cannot get through.

Donald D. Delahanty '44, artist, linguist, and industrious Head of the Department of Surgery, is also a capable and popular speaker. He has appeared on regional and distant veterinary programs with sufficient frequency that the airlines have remained solvent. In his lectures he draws heavily on his personal experiences in the surgical clinic and large animal hospital; very busy parts of the College. Not long ago he was in Pullman, Washington, and Honolulu, Hawaii, and as I write this letter he is preparing to fly to Stockholm to confer with Sten-Erik Olson, a physician and veterinarian, who is Head of the Department of Radiology at the Royal Veterinary College. He hopes to observe the versatility of a rather fantastic radiographic instrument designed by Sten-Erik Olson and built there for use in large animals.

Ralph Slusher, D.V.M., M.Sc., who earned both degrees at the Ohio State University, has joined the staff in the Department of Surgery as Assistant Professor of Radiology. Ralph has had seven years of private practice prior to his graduate program at Ohio State and serves as radiologist for both the Department of Surgery and the Department of Small Animal Medicine and Surgery. Born in London, Kentucky, he and his wife Mary and their daughter Lauri came to Ithaca from Columbus, Ohio.

Jack E. Lowe '59, Assistant Professor of Surgery, has been handling the teaching program in surgical exercises and with his colleagues in the department has expanded the instruction materially. He is a popular, patient and competent surgeon and teacher.

Wendell K. Loomis '52, Associate Professor of Veterinary Surgery, also has proved to be an effective and popular diagnostician and clinician in the surgical clinic. In addition, he is a poised, dignified and able speaker, with a wealth of knowledge that inspires confidence in both clients and students. The Department has an excellent staff, including its internes.

A. Gordon Danks, Professor of Surgery and Director of Student Administration, has a very busy office which handles a large share of the very important administrative responsibilities of the College: that of admissions, student counselling, student records, military obligations, state board examinations, and even placement. For those of you who have not heard, he was elected *Veterinarian of the Year* by the New York State Veterinary Medical Society in 1964. This is a particularly noteworthy action because, according to policy of the Society, nominations are made by an ad hoc "outside" committee, and the Society then votes on the nominations. On several occasions, when College responsibilities have made it necessary that I be away from the campus for appreciable periods of time, Gordon has also been willing to serve as Acting Dean. He is a man of excellent judgment and, as you know, has the ability to separate the wheat from the chaff quickly and incisively.

Lindley C. Kent continues to be our capable guardian of all financial matters of the College, and these indeed are complex. The operating budget has more than doubled within the past 5 years and now exceeds 3½ million dollars per annum. You can see that the many ramifications of his responsibilities have expanded accordingly. He has become a very proud grandfather and enjoys this exalted role thoroughly.

Last January, it was our good fortune to have a new administrative position, Assistant to the Dean, filled by Howard E. Quirk, B.S., B.D. After serving as a lieutenant in the Merchant Marines for 3 years, he was a salesman for the International Business Machines Corporation. Following this experience, he completed the requirements for a B.S. degree at the Cortland State College of Education where his particular proficiency was in English and Accounting. He also holds the B.D. degree from Bangor Theological Seminary. He has been serving as liaison officer for the College on federal grants and contract programs, and has assumed many of the fixed administrative responsibilities which are part and parcel of the total College operation. He has instituted studies on integrated systems of records management and, in his spare time, which has been virtually nil, we expect that as a man of the cloth he will exercise stern surveillance, particularly over the ethical practices of his administrative colleagues, Danks, Kent and Poppensiek; and this merely because their offices are closely adjacent to his.

Ellis P. Leonard '34, Head of the Department of Small Animal Medicine and Surgery and Robert W. Kirk '46, Professor of Small Animal Medicine in that Department, have developed plans to study the problems of organ transplantation, particularly kidneys in dogs, since kidney disease is one of the most troublesome problems in small animal practice. They have a collaborative program under way with a team of physicians from the Medical College of Cornell University in New York City. This group is particularly anxious to tackle the per-

plexing phenomenon of immunorejection in heterologous organ transplantation.

During the past several years Bob has been quite an angler; fisherman, that is. However, I have just learned that as a man with many interests in outdoor sports he also is quite adept with the bow and arrow. He has had buck fever quite severely this fall and the full staff is waiting patiently for an invitation to a venison barbecue. We are glad that the outlet for his energies in this type of sportsmanship is in stalking game rather than splitting apples, like William Tell. During this past year he served as editor and contributor to an excellent book, *Current Veterinary Therapy, Small Animal Practice*, published by the W. B. Saunders Company.

George E. Ross, Jr., Assistant Professor of Small Animal Surgery, has completed the requirements for an M.S. degree in surgery at Kansas State University. He has been a very efficient and capable surgeon, and is currently interested in the perplexing problem of gastric torsion in deep chested dogs.

Albert M. Beck '59, Assistant Professor of Small Animal Medicine, has expanded his interest in cardiovascular disease and plans to develop a research program in this area of specialization.

Three new internes joined the department in mid-summer: Lonnie J. Rich from the University of California; Moses J. Bojrab, from Purdue University; and Robert S. Jackman, also from Purdue University. They have fitted well in the bustling activity of the clinic and hospital and have contributed effectively to the operation of the department.

It is good to tell you that from all accounts our emeritus professors are well and happy. Also, for the most part they are traveling more than some of the faculty who practically qualify as astronauts. Hugh Dukes spent a couple of days in Ithaca in the late summer. He and Mary are still living in Des Moines, Iowa, but they also maintain an apartment in Ithaca. Hugh is as vigorous and enthusiastic as ever. He presented the College with a print of a motion picture film, with sound track and in color, which records some of his excellent demonstrations to High School students. He calls these *Demonstrations in Living Biology*. Do you remember his decorticated pigeon? Well, he has one in the film. We're willing to loan this film to any Veterinary Medical Society or to any veterinarian in the States who would like to show it to a High School audience. It has been placed in the custody of the Department of Physiology, care of Al Sellers.

Joseph A. Dye, Professor of Physiology Emeritus and his wife Dorothy had not been around the College for several months, but just a few

weeks ago Dr. Joseph visited the Department and it was good to see him again. His students and colleagues will always remember him as one of the most kindly and distinguished professors on the campus, always with a pleasant smile and a warm word of greeting; a quiet dignified man, and a devoted scholar.

Herbert L. '17 and Edwina Gilman were back in Ithaca for a brief sojourn last summer but we understand that they are now in Florida watching the oranges grow and the horses run, while we secure the storm windows, check antifreeze and shovel snow.

Hadley '20 and Dee Stephenson have been buzzing around town in their Chrysler Imperial. When Steve checks his compass and sets his course down the corridor leading to my office I can usually predict that he has a new and good idea and that it concerns either the welfare of the College, the Veterinary Virus Research Institute on Snyder Hill, or the New York State Veterinary Medical Society. He surely is a devoted alumnus and a devoted emeritus professor. We understand that his arthritis bothers him a bit now and then, but it surely has not slowed down his cerebration nor has it affected his good-natured disposition.

Mia Reinap, our College librarian, has called our attention to the fact that the name of the library is the *Flower Veterinary Library*. In 1897 it was named the Roswell P. Flower Library in tribute to a generous benefactor, then Governor of the State of New York. In about 1929, the library name was changed to its present designation with permission of the Flower family because of the confusion with the Roswell P. Flower Memorial Library in Watertown. At various intervals we lapse to the old name because we see it inscribed on a copper plaque on the library wall. Occasionally reference is made also to the Flower Library. Without the adjective "Veterinary" interposed between Flower and Library one might think that this refers to a botanical collection. Nonetheless, this outstanding library, containing the largest veterinary collection in the world except for the collection in the United States Department of Agriculture, is the heart of the College.

In September 1963, a new position was approved and Elizabeth Seymour became Assistant Librarian and Cataloger. This facilitated a redivision of work, enabling the Associate Librarian to devote more of her time to reference work and other readers' services. In May, Rosanna P. Allen left the library on an assignment from Cornell University to Liberia where she will remain for 18 months. She was replaced by Lisbeth Rawski as Associate Librarian.

You will be interested to know, I am sure, that the total collection in this focal point of College activities now exceeds 39,000 accessions.

During the summer, Mia Reinap activated her passport and visited

veterinary libraries in Oslo, Stockholm and Copenhagen, where she had opportunity to exchange ideas and to observe practice in these excellent institutions.

Gifts were received from the Monroe County Veterinary Medical Association, the Women's Auxilliary of the Veterinary Medical Association of New Jersey and the Raymond R. Birch family; also from Mrs. L. H. Savage and the H. W. Naylor Company. Other gifts included a sizable contribution from the New York State Veterinary Medical Society, derived from the short courses of September 1963, and a thoughtful contribution from the Cornell Student Chapter, AVMA Auxilliary (student wives). Dr. Sydney A. Asdell, Professor of Animal Husbandry and a distinguished physiologist in the field of animal reproduction, has sent his medical journals to the Flower Veterinary Library regularly. Many other gifts have been appreciated and acknowledged in the Alumni Gift Book maintained in the library.

*"Seeing myself well lost once more, I sighed
Where, where in Heaven am I? But don't tell me!
Oh, opening clouds, by opening on me wide
Let's let my Heavenly lostness overwhelm me!"*

*—Lost in Heaven
Robert Frost*

Word of the deaths of the following Alumni has reached us during the year:

Frederic W. Andrews '05, Mt. Kisco, New York
John Dewitt Andrews '14, Avon, New York
Walter A. Boyd '32, Hackettstown, New Jersey
Lyle S. Compton '31, Clymer, New York
Maurice J. Dooling '10, Syracuse, New York
Alfred I. Friedlander '55, Torrington, Connecticut
Walter E. Gilroy '18, West Chazy, New York
Willard S. Gleason '12, Niagara Falls, New York
John Ernest Greenway '28, Syracuse, New York
Claudio Muskus '42, Valencia, Venezuela, S.A.
William Newman '07, Ithaca, New York
Roy Rowe '11, Mount Vernon, New York
Arthur M. Seaman '04, Hornell, New York
Bryon S. Shattauck '08, Bowmansville, New York
Clark Alexander Taylor '47, Latham, New York
George A. Young '43, Lincoln, Nebraska
Clarence P. Zepp '19, New York, New York

This review of the activities of some of your colleagues and mine at the College is but a fleeting glance at the great vitality of many different and wonderful personalities who constitute the sum and substance

of your Alma Mater. As I look back upon the past year in which such a fine faculty and staff have labored together with enthusiasm and with anxieties, with moments of triumph and moments of disappointment, I am pleased to tell you that once again the peaks which they have climbed have overshadowed the valleys and we stand today on a higher professional plateau than we occupied last year at this time. And yet last year our plateau was higher than that of the previous year, and this seems to have been the pattern all the way back to the beginnings of this great College. That, of course, is the way that it should be. And in that frame of reference we will prepare to scale more difficult and more challenging upward slopes tomorrow, striving at all times toward finer academic excellence in teaching and in research.

The great tenor bell which hangs in the belfry of the Library Tower and strikes the hours was a gift of Mrs. Andrew Dickson White in 1869. Upon it is inscribed a verse written for it by James Russell Lowell:

*"I call as fly the irrevocable hours,
Futile as air or strong as fate to make
Yours lives of sand or granite; awful powers
Even as men choose, they either give or take."*

You and I may not be able to recite these words tomorrow, but no matter how far we might be from the familiar scenes of the campus, we will never forget the chimes and the clear great tone from the throat of the tenor bell, calling the hours across the hills and valleys surrounding this glorious University. As we approach another new year there is no question that those of us here and those of you who are sons and daughters of this College would have our lives "not of sand, but of granite." And as we relate the meaning of that truth to this University which has given us a base of knowledge and understanding upon which to build, we share a common oneness. Also, we share a common opportunity to continue to raise the colors of this great institution to pinnacles even beyond the limits of our comprehension. Your efforts and our efforts to work for the welfare of mankind, and the good that is accomplished in that effort, provide new dignity to the stature of your Alma Mater. So in that spirit may we turn our deep inner senses for a moment to the inscription on the tenor bell. Then may we greet the irrevocable hours of the year ahead with a renewed spirit of dedication to the dignity of service beyond the interests of self.

All good wishes for a gratifying, happy and healthy life during the forthcoming new year.

Sincerely,

A handwritten signature in dark ink, appearing to read "George Oppenick". The signature is fluid and cursive, with a large, sweeping loop at the beginning and end.