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The Oriental Institute

Report for 1969/70

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Front cover: Part of Hittite Empire relief-decorated pottery vessel from Korucutepe, Turkey, thirteenth century B.C.

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To the Members and Friends of the Oriental Institute

A year ago this introduction to the annual report was written at the end of the Institute's fiftieth year and in the afterglow of an anniversary celebration. The celebration of that milestone and the events associated with it were a salutary experience.

The beginning of the second half-century has not seen dramatic changes in the Institute, either planned or necessitated by changed circumstances, at least to all outward appearances. Any sudden or dramatic change in the course or composition of an institution with the interests and purposes of this one amid today's political, economic, and social uncertainties would most probably be an unplanned, unfortunate change forced upon it by circumstances beyond its control. The Institute is vulnerable, but it is not alone in being so. It is, among other more subtle ways, notably vulnerable, for example, in respect to its archeological field program. It is, of course, wholly dependent upon the course of political events in the Near East and on the good will of host countries. It has also come in recent years to rely of necessity for support of much of its field work on federal grants from the National Science Foundation and the Smithsonian Institution Foreign Currency Program as well as upon a Ford Foundation grant for student field training. Untoward political developments in the Near East or changes in the domestic economy or in our own national emphasis could drastically reduce or alter the character and scope of the field program.

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This is not a warning of impending or anticipated disaster by any means. Nor is it a bland admission that the Oriental Institute and its scholars at home and abroad have never changed methods, approaches, problems, or projects except when forced by some misfortune, but such changes of direction are not apt to be dramatic in any one year. They are gradual and develop slowly, and I believe that some have begun even in this normal year, much as they may be overshadowed by the major and long-term projects that have themselves become famous institutions within the Institute. Even if reverses were to come—and it would not be the first time in fifty years that they had come—I believe that the Institute's human resources are unmatched anywhere in the world. Its faculty is a preponderantly young and vigorous one, a resilient and inventive group which can, both individually and corporately, adapt itself to disappointment and find uses for adversity. It is, above all, in this day of demand for the social accountability of institutions, strong enough to resist the temptation to search frantically for a spurious relevance but will continue to adapt itself to an enlarged and surer understanding of its humanitarian goals and of better ways to attain them.

Be that as it may, the remainder of this report by the director is going to assume unabashedly the form of a news column largely of items about the Institute's greatest asset, people. It will detail some, not all, of the events in the lives of some, not all, of the members of the staff, largely in the line of duty and largely of the kind that they would not report themselves or, in some cases, of which they were not able to provide their own account for this report. The director does so knowing full well that the procedure is fraught with the danger of triviality and lays him open to suspicions of superficiality, favoritism, lack of awareness, forgetfulness, and possibly even worse sins of omission. It may also result in more interesting reading for our "lay" members for whom it is intended.

Despite changes of plans in a few cases, a number of expeditions and individuals from the Institute made their way to the Near East during the year for normal seasons and planned tasks. In certain cases where original plans fell through, scholars improvised or turned their attention elsewhere and, as it happened, with notable satisfaction and

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marked success in each case. Altogether normal and as planned were the seasons of three major expeditions.

The Euphrates Valley Expedition, as Hans G. Güterbock and Maurits N. van Loon report below, had its second season at Korucutepe in eastern Turkey. This excavation is, I believe, a model of excellent field work, of international cooperation in a salvage effort, where the area is to be flooded by the Keban Dam, and of the remarkably capable training of a staff of graduate students on the job.

The venerable Epigraphic Survey had another successful recording season at Luxor in Upper Egypt, as can be gathered from Charles F. Nims's report below. Professor Nims barely refers, however, to the one incident that made the season at Luxor anything but routine. For the first time in the Survey's forty-two seasons since 1924, a member of the staff was the victim of a serious accident. It was Professor Nims himself, an old hand of nearly thirty seasons on epigraphic ladders and scaffolds, who had to come down from a considerable height off a ladder onto the stone pavement of the forecourt of the Temple of Khonsu at Karnak. His fractured heels kept him in casts for over two months and out of epigraphic work even longer, but it is a tribute to him, to Mrs. Nims and to an excellent staff and organization that the work went on admirably well under his direction but without his participation in the temple.

At Chogha Mish in western Khuzestan, southern Iran, the Joint Iranian Expedition of the Oriental Institute and the University of California at Los Angeles spent a season of double the usual length because of having missed the 1968/69 season. Helene J. Kantor for the Institute and P. P. Delougaz for U.C.L.A. had under their direction a bright and eager staff of graduate students for this fourth season's work on the huge mound and forty-acre site. Members of the Institute received newsletters from the expedition during the season.

Professor Kantor, very shortly after her return to Chicago from the long season in Iran, departed for Australia, where she will teach Near Eastern archeology as a visiting professor in the University of Sidney during the Trinity term.

Robert and Linda Braidwood, for various reasons not of their

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making, were forced to forego the autumn, 1969, season of their Joint Istanbul-Chicago Prehistoric Project at Çayönü in southeastern Turkey. They expect to have their third season at the site in the autumn of 1970.

Instead of being in Iraq working from the Institute's base at Nippur to continue his surface reconnaissance of southern Iraq for approximately six months last winter, Robert McC. Adams had to make drastic changes in his plans when it appeared that he would not be able to go to Iraq. Professor Oleg Grabar of Harvard invited Professor Adams and the Institute to join in his expedition working at the medieval town of Qasr el-Hayr near Palmyra in Syria. Although he and James E. Knudstad, Field Architect of the Institute, participated in the excavation, Professor Adams was also able to carry on surface reconnaissance in the area. Professor Adams had the honor, which we share, of being elected to the National Academy of Sciences during the year and was presented the challenge of becoming Dean of the Division of the Social Sciences in the University on July 1, 1970.

Hans J. Nissen, shifting from earlier plans for Iraq and Turkey, settled upon an alternative project for the spring of 1970. He had hoped at some time to do a surface survey of sites and trade routes in southeastern Khuzestan. Accompanied by Mr. Charles L. Redman, a graduate student who had been scheduled to work with Professor Adams in Iraq, Professor Nissen had a very successful campaign of about a month in the Behbehan Plain of the Hendijan Valley.

When Robert D. Biggs was unable to spend a second season last autumn as epigrapher with the joint Metropolitan Museum–New York University expedition excavating at Al-Hiba in Iraq because the expedition could not take to the field, he betook himself to the Museum in Baghdad for some weeks in the spring of 1970. He is finishing the copying, collating, and joining of fragments of cuneiform tablets bearing Sumerian texts which were found in Institute soundings in 1963 and 1965 at Tell Abū Ṣalābīkh, near Nippur in southern Iraq.

Professor Emeritus John A. Wilson was again in Egypt for a second season as Egyptologist for the University of Pennsylvania's

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Akhenaten Temple Project under the direction of Ray W. Smith. The project is an attempt to bring order out of the chaos of many thousands of inscribed stone blocks of a temple built in the fourteenth century B.C. by the heretic king Akhenaten at Karnak which was dismantled and the blocks re-used as fill in numerous structures built by Akhenaten's successors. The blocks have been retrieved from these later structures in recent decades and are still being retrieved. The huge task is to recompose the vast jig-saw puzzle, of which parts are missing, by the use of photography, since the pieces of the puzzle are unwieldy, of IBM computers, since the possible combinations are nearly infinite, and of Egyptological know-how.

On his way to Egypt in January Professor Wilson delivered the Adriaan de Buck Memorial Lecture at the University of Leiden. De Buck had been a protégé of Breasted's and affiliated with the Institute most of his scholarly life in the publication of the seven volumes of *The Egyptian Coffin Texts.*

During the academic year just ending A. Leo Oppenheim spent the autumn quarter as a visiting professor at the University of California, Berkeley, and upon his return to Chicago underwent a successful surgical operation to round out an eventful year. Erica Reiner spent a brief period in the winter quarter at the British Museum in London working at cuneiform texts. David Pingree, as he does not say in his report below, was on leave most of the academic year as a fellow at the Institute for Advanced Study at Princeton. Louis V. Žabkar, formerly a Research Associate in the Institute, now Professor in the Department of Mediterranean Studies in Brandeis University, returned briefly to Khartoum, the Sudan, in June to conclude affairs of the excavation at Semna South which he directed in 1966 to 1968 and to return objects from the excavations lent us for treatment and study by the Sudanese government.

In the death of William Franklin Edgerton at the age of 76 on March 20, 1970, the Institute lost one of its original faculty members and Egyptology one of its ablest scholars. Professor Edgerton had been instructed by Breasted and received his Ph.D. under him in 1922. In 1926, after brief faculty appointments at the University of Louisville and Vassar College, he was brought back by Breasted to

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become an Egyptologist on the staff of the Epigraphic Survey, then two years old. In 1929 he returned to residence in Chicago and taught almost continuously until his retirement in 1959. A long line of colleagues and generations of students of Professor Edgerton's can attest to association with an exceedingly keen analytical mind and a forthright gentleman whose passing they mourn.

It is no easy task for the members of the Epigraphic Survey, Luxor, past and present to bid farewell to the Institute's employee of longest tenure, Mr. John Healey of Bishop Auckland, County Durham, England. Mr. Healey signed on as Superintendent in 1932 and from that time on, under all four directors of the expedition and all the directors of the Oriental Institute, he was the one continuous member of the staff and, in the minds of many of us, the one indispensable member including ourselves.

Although Richard C. Haines reached academic retirement in June, 1970, he has been prevailed upon to postpone his retirement plans for a year or two for the purpose of pushing to completion the publication of certain Institute excavations. In some cases these excavations took place decades in the past, and although Professor Haines was not originally responsible for their publication, he is now the only remaining participant in them. The task is scarcely the most enviable alternative to the freedom of retirement. To sweeten the prospect, however, Professor and Mrs. Haines have agreed to conduct the Oriental Institute tour of Iran in April, 1971.

It was undoubtedly because of John A. Brinkman's devotion to teaching, his energetic interest in students, and his concern for the caliber and welfare of the teaching faculty as much as because of his scholarly competence and achievement that his colleagues chose him to be the Chairman of the Department of Near Eastern Languages and Civilizations, whose function and relationship to the Institute he describes below. Professor Brinkman succeeded to the post on July 1, 1969, when Muhsin S. Mahdi departed for Harvard. This manifestation of esteem for his abilities and the appearance of his compendious *Political History of Post-Kassite Babylonia* were exceeded in importance only by his marriage to Miss Monique Geschier in March, 1970.

Were the characterization of the staff of the Institute and Depart-

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ment above as "preponderantly young" in need of corroboration, it ought to find some in the fact that in addition to Professor Brinkman two other members were married during the academic year: Gene B. Gragg to Miss Michele Rochat in December, 1969, and Edward F. Wente to Miss Leila Ibrahim in April, 1970. As a further enhancement of the faculty's already cosmopolitan cast the brides are, respectively, Belgian, French, and Egyptian by nationality and two of them are archeologists in their own right.

The Institute lost one of the most devoted and active members of its Visiting Committee with the death of Mr. W. Press Hodgkins of Lake Forest, Illinois, on December 2, 1969. Following his retirement from business in 1965, Mr. Hodgkins had devoted himself to voluntarily assisting a number of educational institutions in fund-raising, and the Oriental Institute was fortunate in being one of them. He had organized and personally conducted four archeological trips for the benefit of the Institute: to Turkey in the autumn of 1966, to Lebanon, Iran, Pakistan, and Afghanistan in the spring of 1968, to Greece in the autumn of 1968, and to South America early in 1969. He had organized but was unable to lead a fifth, to East Africa, in the autumn of 1969, shortly before his death.

The 1969/70 series of monthly Institute lectures for members was initiated on October 14 with an innovation in recognition of the fiftieth anniversary year in the form of a symposium on "Nature and Culture: The Appearance of Food Production in Southwestern Asia." It was organized by Robert and Linda Braidwood, and the participants with them on the stage of Mandel Hall were seven past and present members of the field staff of their Prehistoric Project, supplemented by Mr. John Pfeiffer, scientific journalist, who acted as moderator, and M. Jean Perrot, a distinguished French archeologist.

Following the well-attended symposium a reception in the galleries of the Museum was the occasion for the opening of an exhibition of "Paintings and Drawings from Turkey and Iraq," by Martyl. It was on visits to Oriental Institute expeditions that Martyl (Mrs. Alexander Langsdorf, Jr.), a well-known Chicago artist, had done her paintings and drawings.

The second in the lecture series, on November 5, was also a

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pleasant departure from the usual. Mr. Arthur S. Bowes, a member of the Visiting Committee, showed a color film which he had taken on the Institute trip through Turkey in 1966. The film had been produced with professional skill by Mr. Bowes and narrated by Mrs. Bowes and himself.

On October 7, 1969, the Museum found itself playing a startling role when it was the impromptu and unlikely host to a one-day exhibition for the University community of "moon rocks" brought back by the first manned flight to the moon. The Museum has become increasingly popular in recent years but never as popular as it was on that one day.

The increased popularity of our Museum in the Chicago community, particularly among the public schools, was probably something to be expected from the great increase in the number of museums of all sorts throughout the country and the burgeoning popularity of all of them. However, the increased attendance in the case of our Museum has been phenomenal and it has had additional significance educationally because it has been deliberately met and imaginatively capitalized upon. Mrs. John Livingood's single-handed efforts to initiate and perfect a Volunteer Guide Program have succeeded admirably and the program has now reached a maturity of experience and smoothness of operation. This is not to say that the program automatically runs and perpetuates itself, that new volunteers need not be sought and provided with a course of instruction annually, but the success of the pattern and the apparent satisfaction—the only remuneration—of past volunteers have a way of attracting other persons devoted to the idea of public education of this kind and willing to give time to it.

The Suq (Museum Shop) is also a part of the Volunteer Program conceived and initiated by Mrs. Livingood and Mrs. Theodore D. Tieken, and it is now an immensely successful enterprise despite restricted space in the lobby and inadequate facilities. It also makes unremitting demands on those who give their time and experience to making it a responsible, orderly business venture contributing financially very substantially to the Institute's resources for the meeting of unbudgeted needs.

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It is with greater appreciation than perhaps she has realized we felt that we mark the relinquishment of the Chairmanship of the Volunteer Docents by Mrs. Charles R. Shields of Downers Grove after a three-year tenure covering most of the life of the program. Mrs. Shields will continue, I am happy to say, to serve as one of the volunteer guides, but she will be replaced as Chairman of the group by Mrs. Richard Frank, herself long an enthusiastic Museum docent.

Mrs. Ezra I. Hurwich of Lincolnwood has also found it necessary to retire from the Chairmanship of the Suq Volunteers. Mrs. Hurwich's efficient service has earned everyone's gratitude; her lively, enthusiastic presence has endeared her to us. She has been succeeded as Chairman by Mrs. Paul Manes, a more recent volunteer, to whom we are grateful for taking on the responsibility and for whom we wish a compensating satisfaction.

Mrs. Theodore Tieken and Mrs. G. Corson Ellis, although volunteers also, continue after several years' experience to be sought after in the basement workshops for their very considerable expertise in reconstructing pottery and other objects brought back from the field by the expeditions.

The Oriental Institute has from the beginning been dependent upon the financial contributions of persons who were not Orientalists but who believed that "the proper study of mankind is man" and that an indispensable part of that study is the rise of man and the origins and often tortuous development of his institutions and civilizations. This basic participation by the layman began with John D. Rockefeller, Jr., and the establishment and enlargement of the Institute, a concept then ahead of its time. The economic environment has changed greatly since the '20's, and the collapse of the '30's had enduring effects. The way back for the Institute in the '40's and '50's under the directorships of John A. Wilson and Carl H. Kraeling was a slow and arduous one. The shift from the support almost exclusively of one patron to a fixed University budget—and that in economically stringent years—left practically no support, for example, for the field expeditions and retention of even their senior staff members. It was largely with an eye to restoring in some measure the field work that Carl Kraeling turned in the '50's to revitalizing an

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existing but negligible outside membership. By arrangement with the University he undertook to underwrite from income from members a portion of the regular budget, or rather to increase that regular budget from such outside income.

To provide some return and participation for the members, the expense of providing such things as newsletters, the annual report, public lectures, and the mementoes at Christmas was to be borne by the dues and contributions of members, but most of the income was to go directly into underwriting a part of the budget. Any remainder gave the director a small contingency fund for emergencies and unforeseen opportunities.

The number of members gained in the '50's was doubled in a drive in 1965 and now stands at about 900. Without the contributions of members and lately the income of the Suq, basic Institute functions, which are now taken for granted as essential by the staff and others, would have to be curtailed or dropped. Every member is highly prized, and this applies to each $10 annual dues-paying member as well as to those who contribute hundreds, a few of them thousands, of dollars annually, sometimes for designated purposes—and those designations are always honored—but more often for unrestricted purposes. To this company, which we hope will grow, it can be said gratefully that their gifts are not spent on luxuries which could be dispensed with nor for overhead.

The two Lassalle Fellowships in Egyptian and Coptic studies were provided for the fourth consecutive year by Patricia R. and Dr. Edmundo Lassalle of New York, and in addition their gift subsidized the preparation for publication of materials from the excavations at Serra East and Semna South in the Sudan and the printing of the report of the excavation of the Qasr el-Wizz monastery in Egyptian Nubia. Dr. and Mrs. Lassalle visited the campus in March much to the delight of many at the University.

The Institute lost a valued friend in the death by auto accident of Mr. Robert S. Chalifoux, vice-president of Photopress, Inc., of Broadview, Illinois. He had followed his father, Edward J., in the family business, and both father and son had taken personal pride in the printing of the plates for a number of Institute volumes and had

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frequently contributed the printing of costly color plates which would otherwise have been prohibitive. The copies of "Birds in an Acacia Tree" which were sent to our members last Christmas and other copies which were sold in the Suq were the unsolicited gift of Robert Chalifoux and Photopress.

Lest the director be accused, as he has been, of failure to divulge his concerns and activities, not to say failure to write a newsletter about them, let it be recorded that Mrs. Hughes and I made a trip of about six weeks in October and November primarily to visit the Institute's expeditions in eastern Turkey (Korucutepe), in southern Iran (Chogha Mish), and in Upper Egypt (Luxor). The visits were not for the purpose of checking on the expeditions and how they were performing but solely to inform myself sufficiently to be an understanding and helpful ear at home base. Much of the trip was business, much of it was an introduction to areas of the Near East entirely new to us, all of it was a pleasure except possibly for twelve-hour, hot bus rides from Ankara to Elâziğ in Turkey and from Tehran to Andimeshk in Iran when other modes of transportation failed. Even those rides had their compensations, especially in previously unknown territory.

It was not since the spring of 1964, when we left Luxor and the Epigraphic Survey for the last time, that we had been in the Near East. The return to Egypt, to Cairo and Luxor, was in the nature of a homecoming to the scene of much of our lives and interests for eighteen years, so much so that it was difficult to find time amid pleasurable entertainment for the hours I needed over a Demotic papyrus in the Cairo Museum.

So be it, and may the following report give all of you some insight into a part of the varied and complex pursuits of one research institute—a great one, I believe.

GEORGE R. HUGHES
Director

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The Epigraphic Survey

CHARLES FRANCIS NIMS, *Field Director*

The Epigraphic Survey is not a tidy operation. At the end of each season there are many loose ends. Though Chicago House is closed, the work continues in other places. The artists take home collated drawings on which corrections must be made and additional drawings on which they have only penciled in the lines which they must go over in ink. On the opening of the expedition in the autumn the epigraphers check the corrections which have been made and begin to collate the drawings completed during the summer. In the off-season the Egyptologist-epigraphers do editorial work on the text of the next volume to be published, which entails much research.



Temple of Khonsu from the southeast. *Photo by Carolyn Livingood*

No drawing is considered complete until it has been turned over to the editor, and research may send both the Egyptologist and the artist back to the wall to check the original scenes and inscriptions for the improvement of our facsimile copies. One difficult and damaged

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text in the Temple of Khonsu was drawn twice in the late 1930's but was never finally approved because the Egyptologists were not satisfied that every possible trace of the inscription had been recovered from the wall.

Our 1969/70 season, as usual, went from 15 October to 15 April. To start earlier or continue later might bring us into heat which would make work impossible. The past season was quite temperate, but just before the close of our work we had a week in which the temperatures reached 108° F. each day.

This was the first season in almost a decade in which we were able to concentrate our efforts on one monument. Khonsu was the third god of the Theban triad; he is often shown as a child with the sidelock of youth. Sometimes he was considered the son of the other two chief Theban deities, Amon and Mut. As a moon god he was frequently linked with Thoth, the earlier moon god. We are trying to finish a unit of the temple consisting of the court and first hypostyle hall, most of which was decorated under Herihor, the general and high priest of Amon who became pharaoh in the later years of Ramses XI, though the legitimate ruler was living.

As a result of his accident at the beginning of the season the field director was able to undertake little more than his administrative duties. The burden of the epigraphy fell on Carl DeVries and David Larkin, the other Egyptologists. They spent extra hours at the temple and forwent their own research, for which otherwise they would have had time. Carl also photographed all of the tracings of the 35 scenes on the round columns of the court. These were made by Reginald Coleman, our senior artist, who traced the outline of the relief on clear plastic sheets with a lithographic crayon. Once the photos were made, the tracing was erased by vigorously rubbing the plastic with a cloth so that the sheet could be reused. This task was performed by Yousef Mohammed, the darkroom assistant.

At the end of the season we had completed about 25 drawings, with 30 more being collated or corrected, and 30 others penciled in and taken home by the artists for completion of the first stage during the summer. The other artists were the same as in the previous season, Grace Huxtable, Martyn Lack, and Richard Turner.

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Thanksgiving, 1969. *Clockwise from left:* Labib Habachi, Grace Huxtable, Carl DeVries, John Healey, Carlota Fliege, Myrtle Nims, Reginald Coleman, Marie Coleman, Martyn Lack, Werner Fliege, Catherine Turner, Richard Turner, and Charles Nims, who is holding Christopher Turner. *Photo by David Larkin*

Myrtle Nims continued to serve as supervisor of the household. The three male artists were accompanied by their wives, and the junior member of our household, Christopher Turner, celebrated his first birthday the latter part of January. Labib Habachi spent four months at Chicago House engaged in research with the help of our library and helping in local matters where we non-Egyptians needed some assistance in understanding. George and Maurine Hughes were with us for about two weeks in November, and John and Mary Wilson stayed with us for two months, in February and March.

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This was the final year for John Healey, who for 38 years has taken care of the maintenance and assured that Chicago House would run smoothly. There were two farewell dinners for him, one at the Savoy Hotel given by the staff of the Epigraphic Survey and another at Chicago House given by our *reis*, Hagg Ibrahim Mohammed.

To replace him we have added to the staff Werner Fliege, who began his work this season. He has lived in Egypt for almost forty years and has held various responsible positions as a technician. For the years 1967–69 he and his wife Carlota were in Izmir, Turkey, serving at the Ege University in the technical section of the School of Agriculture. Before their departure in 1967 Carlota held a license as guide for the ancient monuments. She has an excellent knowledge of the antiquities.

A continuing grant from the Smithsonian Institution, through the American Research Center in Egypt, financed the costs of operation and maintenance (except for capital improvements) and most of the costs of staff travel. Mr. John Dorman, director of the A.R.C.E. office in Cairo, continued to give his gracious assistance wherever needed.

Despite increasing tension between the United Arab Republic and the United States, our relations with our Egyptian colleagues have never been more amicable. We who come from Chicago feel safer on the streets of Luxor and Cairo than at home. Egypt seeks after and welcomes American visitors. We wish that more members of the Oriental Institute might be among these.

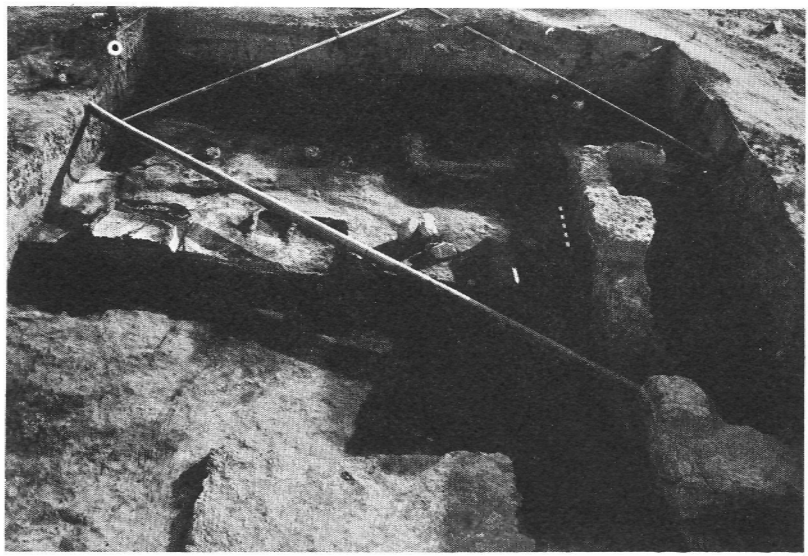
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The Euphrates Valley Expedition

HANS G. GÜTERBOCK, *Director*
MAURITS VAN LOON, *Field Director*

For the second time in two years we spent almost three months digging at Korucutepe, one of the eight major prehistoric sites to be submerged by the building of a dam at Keban on the Euphrates. The Turkish government has encouraged foreign teams to help in this salvage effort, and so German, British and American (University of Michigan) teams have worked closely with three Turkish groups in piecing together the material record of eastern Anatolia's past.

More even than last year students have been involved in our efforts. Thanks for this are due to the Ford Foundation, which provided traineeships for six students of the universities of Chicago and California, Los Angeles, and to the generosity of the University of Amsterdam. The latter provided two students together with a faculty member (Philo Houwink ten Cate) and shared the other expedition expenses as well. The National Science Foundation, which has been



Patio with hearth platforms and sunken fireplaces, about 2600 B.C. The irrigation pipes are modern. *Photo by Diederik Meijer*

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involved in our archeological salvage work in the Syrian and Turkish Euphrates valleys since 1964, enabled the senior staff to come out for instruction of the students and direction of the operations.

Adding some fancy to the facts, we might give the successive occupations of our site the following names: the village community, the military stronghold, the administrative center, and the lordly manor.

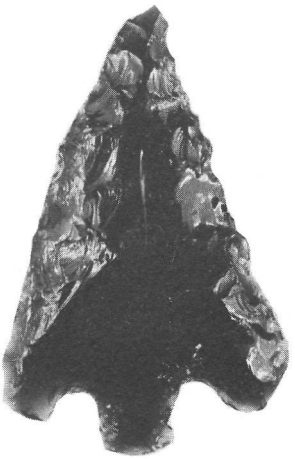
THE VILLAGE COMMUNITY (ABOUT 2900–2600 B.C.)

At the north edge of the table-shaped mound, excavation has gradually revealed the domestic part of a large prehistoric village establishment. East of the mud-brick walls that we think enclosed the residential quarters, a walled patio contained a spacious array of clay and mud-plaster household appointments that must have been the dream of a third-millennium B.C. housewife: three or four rectangular hearth platforms; circular, sunken fireplaces; a circular fireplace raised like a table top, with traces of a portable horseshoe-shaped hearth; a fixed horseshoe-shaped hearth; and two grain bins. Holes filled with charcoal near the corners of the rectangular platforms mark the spots where posts held up the roof. Over all of this a ceiling made of oak beams and rushes had burned and collapsed, burying the inventory of the patio. Either an earthquake or warfare must have been to blame.

As roofs are nowadays made of cultivated poplar trees and the wild oak stands of eastern Turkey have long been reduced to scrub, the use of full-grown oaks hints at richer natural resources available in the prosperous third millennium B.C. The rushes indicate that marshy conditions may have prevailed at the time. It seems quite possible that the early settlers of our area were faced with the double challenge of draining a swamp and cutting down the primeval forest—a task for which they had not been equipped until the advent of the Bronze Age about 3000 B.C.

The local villages of the third millennium depended heavily on agriculture (we had learned before that cattle-grazing was another mainstay of their economy). Many thousands of charred grains of

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Obsidian arrowhead (*ca.* 1½ in.), about 2600 B.C.
Photo by Dorothy Brooks Koopman

bread wheat and two-rowed barley were recovered in and around the storage jars and cooking pots crushed by the roof fall just described.

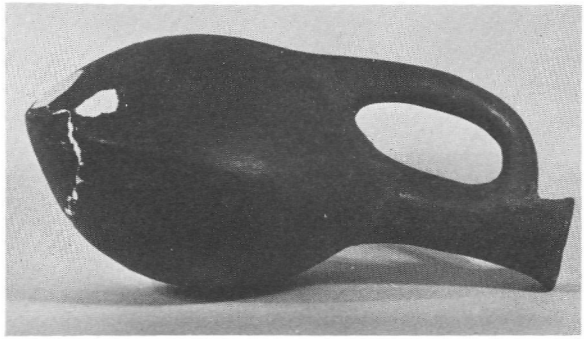
Part of these hand-turned, highly burnished black vessels as well as the red or brown eating and drinking bowls found on the "table" nearby have been painstakingly mended and give us the complete, very limited range of Early Bronze II pottery shapes. On the burned floor there was an almost complete goblet in the dainty, technologically much more advanced ware that was made in northeast Syria and north Mesopotamia from 2600–2150 B.C. approximately.

In the Early Bronze Age tool kit one can also see a survival of early village techniques, which produced spectacular barbed arrowheads of obsidian, side by side with pins made by the new process of copper or bronze casting.

THE MILITARY STRONGHOLD (ABOUT 1700–1600 B.C.)

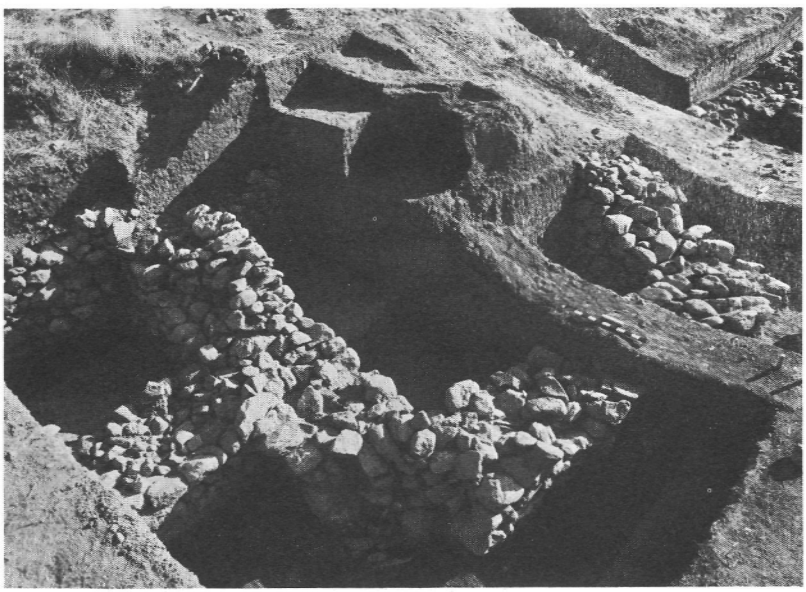
An area with a diameter of 500 ft. was surrounded by a double stone foundation, packed with mountain clay to support a mud-brick and wood city wall 18 ft. wide. At intervals of 48 ft. we found square towers 24 ft. wide. At two points such towers flanked a sloping passage which may have served as a sally port. The best preserved of these perilously overhanging walls stand up to 10 ft. over a floor that slopes down into ground water and off toward the fields beyond the mound.

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Brown, burnished lentoid flask (*ca.* $8\frac{5}{8}$ in.) found in passage of fortification system, about 1700–1600 B.C. *Photo by Dorothy Brooks Koopman*

The pottery we found in the city wall system consists mostly of wares not known outside of eastern Anatolia, such as the technologically highly perfected "gray wheel-marked" ware. Only occasional finds like that of a graceful "lentoid flask" of Old Hittite type have



Stone-founded tower and parallel walls of fortification system, about 1700–1600 B.C. *Photo by Dorothy Brooks Koopman*

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helped us assign it a tentative date between 1700 and 1600 B.C., which finds confirmation in the results of radiocarbon tests.

THE ADMINISTRATIVE CENTER (ABOUT 1400–1150 B.C.)

In the fourteenth century B.C. Hittite power reasserted itself. Our area (the country of Ishuwa, governed by elders) lost its independence and became a vassal kingdom under the Hittite Empire. This historical situation is reflected in the archeological record at our site. The possessions which the new inhabitants of Korucutepe broke, discarded and lost down their drains or between the stones of their pavements do not differ greatly from those found, for instance, at Tarsus on Turkey's south coast, another Hittite Empire stronghold.

Within the levels strewn with Hittite orange pottery we think we can now distinguish a fourteenth-century B.C. occupation from the terminal Hittite Empire phase of the thirteenth century B.C. The first is represented by a street lined with mud-brick, wood and stone houses containing such pottery finished with a slip or a burnish. Bronze pins and needles are another common find.



Turkish worker cleaning fallen ceiling beams of Hittite Empire house, fourteenth century B.C. *Photo by Maurits van Loon*

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The thirteenth-century complex is known from the trash pits that we painstakingly emptied in the center of the mound. They contained quite a few decorated marble spindle whorls and much pottery without surface finish, exceptionally decorated in relief (see cover).

The organic remains from the Hittite trash pits merely showed a continuation of the same agriculture-based economy as before. Our grubbing in Hittite garbage had an ulterior motive. Thirteenth-century B.C. officials would secure shipments by stamping their personal seal, containing their name and title, on conical lumps of clay and upon receipt these *bullae* would be discarded. To our collection of 12 examples from last year another two were added this year. Among the persons whose seal impressions were found there is a royal couple: "Ari-Sharuma, the king, and Kilush-Khepa, the princess." He is known from Hittite sources as King of Ishuwa; his wife may have been a Hittite princess.

THE LORDLY MANOR (ABOUT 1150–800 B.C.)

Excavation on the west slope has given us some fascinating insights into what happened after the fall of the Hittite Empire about 1150 B.C. Into soil still thick with Hittite "platter" sherds, a monumental mud-brick building with inch-thick plaster was sunk. Its red and gray mud bricks on stone foundations can be followed around the mound edge for 30 ft. The top courses of brick had burned and fallen, covering an iron knife or sickle and some of the most interesting storage jars we have had thus far. Some were turned on the fast wheel according to Hittite mass-production methods, others are slow-wheel or even hand-turned and decorated with diagonal incisions or with pairs of "breasts."

What was the origin of the technically backward people who supplanted the Hittites at Korucutepe? Some fragments of similar vessels have been found on the citadel of Palu, which was conquered about 800 B.C. by Menua, king of Urartu and prince of Van, according to an inscription he carved on the rock. The gradual or sudden replacement of local populations by people from the eastern mountains or beyond would not be without parallels in more recent history.

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The Structure of Ancient Society

IGNACE J. GELB

As part of this long-range project on the structure of the ancient society and economy, Professor Ignace J. Gelb has been working during the present academic year on the status of the dependent labor classes in ancient Mesopotamia. Beside the free independent peasants, workers, and producers, there existed two dependent social classes: 1) the semi-free class of serfs (called *gurush*), who worked in agricultural production and manufacturing on large public and private establishments, had full family life, were attached to the soil (*glebae adscripti*), but could not be sold, and 2) the unfree class of slaves (*arad*), who were employed in domestic service, had no family life, and could be bought and sold at will. The serfs, mostly derived from the poor and impoverished native population, provided the major labor force; the slaves, mostly of foreign origin, represented a definitely minor force in the production effort of ancient Mesopotamia. This picture, based mainly on Mesopotamian sources, applies equally to the rest of the ancient Near East.

A preliminary lecture on this topic, entitled "From Freedom to Slavery," was given by Professor Gelb at the universities of Toronto and Michigan earlier this year. Two major papers on this topic are planned for the international "Rencontre Assyriologique" which will take place in Munich this summer, one by Professor I. M. Diakonoff of Leningrad and the other by Professor Gelb. A serious, but hopefully friendly, confrontation on the important issue "serf:slave" in ancient times is anticipated.

Report on The Assyrian Dictionary Project

A. LEO OPPENHEIM, *Editor-in-Charge*

For the past year the staff of the Assyrian Dictionary has been engaged in the many activities which precede the publication of a volume: checking galley proofs (Volume K, which will be larger than any of the volumes published to date); completing work on the manuscript (Volume L); and writing (Volume M).

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Volume K will be ready for distribution in early 1971. Fifteen hundred copies will be printed. This quantity is twice that of the first volume, Ḫ, published in 1956; the number has been increased gradually as successive volumes have been published, and it has been necessary to reprint all of the early volumes.

Two new foreign scholars who will work on the Dictionary for a year or longer are expected to arrive within the next few months.

Project for the History of Astronomy and Astrology

DAVID PINGREE

Astrology and astronomy were, historically, two of man's most readily transmitted sciences—or at least, because of their mathematical expressions, the two whose transmission from one culture to another and whose transformations and developments in the course of transmission are most easily traced. The project for the history of these two sciences has been primarily concerned with the investigation of certain key areas in the course of this process of transmission, transformation, and development: the Hellenistic and Roman Imperial periods in the eastern Mediterranean, India from the Mauryan period to the present, Sasanian Iran, the Islamic lands under the ʿAbbasid Caliphs, and Comnenan and Palaeologan Byzantium.

In approaching each of these areas the first and basic task has been the editing of texts (almost all of the relevant ones have not hitherto been published) and the cataloguing of manuscripts. The editions, when it has seemed appropriate, have been accompanied by translations and commentaries which attempt not only to explain the technical details in the texts, but to relate them historically to their sources and to the subsequent traditions of which they form a part of the foundation.

My study of Greek and Babylonian influence on Indian science has been inaugurated by editions of the *Yavanajâtaka* of Sphujidhvaja (A.D. 270) and, with O. Neugebauer, of the *Pañcasiddhântikâ* of Varâhamihira (*ca.* A.D. 550). Further undertakings have been a *Census*

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Brass astrolabe (*ca.* 3⅜ in. diameter) constructed by ʿAbd al-Aʾimma in Iran between A.D. 1668 and 1720. *Photo by Ursula W. Schneider*

of the Exact Sciences in Sanskrit, of which the first of a projected ten volumes has just appeared; detailed analyses of Sanskrit manuscripts containing astronomical tables in the United States and in England; and editions of several Sanskrit astrological texts. In the field of ancient Greek science my principal project has been the attempt to reconstruct the lost astrological poem composed by Dorotheus of Sidon (*ca.* A.D. 50–75). This reconstruction depends primarily on an edition of the Arabic translation, probably by ʿUmar ibn al-Farrukhân al-Ṭabarî (*ca.* A.D. 800), of the lost Pahlavî version (*ca.* A.D. 275) of Dorotheus, and on an edition of the *Apotelesmatica* of Hephaestio of Thebes (*ca.* A.D. 415), wherein many of Dorotheus' verses are quoted or paraphrased. For Sasanian Iran our main sources of information are the Arabic texts of the ʿAbbasid period, and a number of these have now been explored in a series of books and

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articles: al-Fazârî (*ca.* A.D. 760–790), his contemporaries Yaʿqûb ibn Ṭâriq and Mâshâʾallâh, Abû Maʿshar (A.D. 787–886), and al-Hâshimî (*ca.* A.D. 870). The studies of Mâshâʾallâh and of al-Hâshimî have been done in collaboration with E. S. Kennedy. Finally, the Arabic influence on late Byzantine science has been approached through the Greek translation (*ca.* A.D. 1000) of an astrological treatise by Abû Maʿshar, the translations of several Arabic *zîje*'s or sets of astronomical tables by Gregory Chioniades (A.D. 1290–1302), and the works of the astrological school of John Abramius (*ca.* A.D. 1370–1410).

The enquiry, then, while progressing, is still in its first stages and will remain there for some time. Eventually more complex questions may be asked: What factors foster the transmission of science from one cultural area to another? How is the information to be transmitted selected? In what ways must the selected information be transformed in order for it to gain acceptance in an alien culture? And, to what extent does the transformation affect the validity of the scientific information transmitted? Certain tentative answers to these and other questions have begun to emerge out of the examination of the particular historical cases, but many more examples are needed before any but the most trivial generalizations can, if ever, be made.

The Kassite Project

JOHN A. BRINKMAN

For the past two years, Dr. Brinkman has been conducting research on the history of the Kassites, a non-Semitic people who ruled Babylonia from 1600 to 1150 B.C.

During the past year he has conducted a preliminary survey of the Kassite cuneiform tablets which are housed in the University Museum, Philadelphia. These documents, numbering about 5,000, comprise about half of the famous Nippur archives, part of which were surveyed in Istanbul last year. Dr. Brinkman hopes eventually to undertake a thorough study of all the Nippur tablets from the Kassite period, housed principally in Philadelphia, Istanbul, and Jena.

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Dr. Brinkman's detailed study of the Kassite period at Ur was published in *Orientalia* in 1969, and he is currently completing work on manuscripts dealing with Assyro-Babylonian relations in the thirteenth century B.C. and on the cuneiform inscriptions found at Dur-Kurigalzu.

Report on the Persepolis Fortification Tablets

RICHARD T. HALLOCK

A big event of the 1933/34 excavation season was the discovery of "30,000 tablets and fragments" at Persepolis. In 1937 these tablets became available at the Oriental Institute and a task force of four set to work on them, with visions of gaining quick new historical insights. These visions were soon deflated. After much grubby cleaning of tablets and struggling with the unfamiliar language we found that the texts were exclusively concerned with the minor economic activities of Darius I in the years 509–494 B.C.

The texts were in the Elamite language (except for a small percentage in Aramaic; but that is another story). The Persians had a newly invented writing for their own language but lacked the necessary army of scribes. The many types of text were thoroughly mixed. You might pick up one that said: "Halbaka received 1,000 quarts of flour. He delivered it to Susa for Muharriš to apportion. 24th year." The next might say: "1,124 sheep, supplied by Kampiya, were dispensed 'before' the king. 19th year. Harbezza took a receipt for what was dispensed." The one after that might deal with barley rations for 231 workers at Shiraz, ranging from five quarts per month for some girls and boys to thirty quarts for the men and for some of the women. In each case it would probably be a long time before a similar type of text showed up, or another reference to a place or person.

Certainly there were insights to be gained from such material. But the job would take many man-years of hard labor. When this fact became clear the task force dwindled to one, and soon that one was diverted by the war effort.

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In 1947 the work resumed. By 1961, with more than 2,000 texts read and reread, it was possible to make some sense out of the material, and one could consider publication. Publication also takes time.

In 1969 *Persepolis Fortification Tablets* finally appeared, gratifying a small number of faithful souls in various lands. But that was still not the end of the story. Several years earlier the reading of new tablets resumed, and now 1,900 additional tablets have had their first reading. Perhaps a thousand more deserve attention.

Information continues to accumulate about the network of officials, high and low, busily engaged in collecting and distributing commodities over a wide area, and about ethnic work-groups (Babylonians, Assyrians, Ionians, Egyptians, etc.) engaged in various occupations ("treasurers," stonemasons, irrigators, etc.) in many different places.

The chief officer of the economic administration was Pharnaces, son of Arsames. His own daily pay was two sheep, 180 quarts of flour, and ninety quarts of wine or beer. One text records his daily allotment of flour along with the meager ration of his 300 "boys," who got one quart each. Since Pharnaces clearly enjoyed high status, it seems probable that his father Arsames was the king of that name, grandfather of Darius. This Pharnaces is, however, otherwise unknown to history, unless he is the Pharnaces mentioned by Herodotus as father of Artabazus, commander of Parthians and Chorasmians in the army of Xerxes.

Other important figures occasionally appear, for example, the general Gobryas, father of the famous Mardonius. A text tells us he received his daily 100 quarts of beer for one day at Bessitme and for two days at Liduma, in the year 23, twelfth month. In the same year and month, according to a parallel text, "the wife of Mardonius, daughter of the king" (her name, strangely, being unmentioned) received her daily ninety quarts of flour for one day each at Kurdušum and Bessitme and for two days at Liduma. We can hardly avoid concluding that Gobryas met his daughter-in-law at Bessitme and traveled with her to Liduma, where they stopped over for a day. The information is not, however, easy to reconcile with the statement of Herodotus that, seven years later, "Mardonius was a youth

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at this time, and had only lately married Artazostra, the king's daughter."

The texts of course continually provide new data on Elamite, which few can appreciate. They also add to the large stock of Old Persian loan words, which enrich the limited known vocabulary of that dialect, and to the very numerous Iranian personal names; thus they are of great interest to the Iranists.

The Department of Near Eastern Languages and Civilizations

JOHN A. BRINKMAN, *Chairman*

The Department is the academic or teaching branch of the university whose interests largely overlap those of the Oriental Institute, which is basically a research organization. The Department is responsible for instructional programs leading to graduate degrees (M.A. and Ph.D.) in the languages and civilizations of ancient Egypt, Mesopotamia, Anatolia, Syria-Palestine, and Iran; but, in addition to these areas which it shares with the Oriental Institute, it is also concerned with medieval and modern Islam and with medieval Judaism. The Oriental Institute traditionally provides the teaching staff for most of the Department's programs in the ancient fields; and at present, twenty-six of the thirty-five faculty members of the Department are also members of the Oriental Institute.

During the past year, six new staff members have joined the Department. Joseph A. Fitzmyer, Professor of Aramaic and Hebrew, has come to offer a wide range of courses, principally in the various dialects of Aramaic and in the Dead Sea Scrolls. Fazlur Rahman, Professor of Islamic Philosophy, has added new dimensions to our study of Islamic law and culture. Gene B. Gragg has been serving as Visiting Assistant Professor of Sumerology and has been teaching also in the Department of Linguistics. Our coverage of modern Islamic languages has been considerably enhanced by three new teachers: Joseph N. Bell, Instructor in Arabic, Iraj Dehghan, Lecturer in Persian, and Yurdanur Salman, Lecturer in Turkish.

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In the winter and spring quarters 1970, the Department sponsored a series of lectures on pre-Islamic Iran, including talks by Martin Schwartz (Columbia), B. Schlerath (Frankfurt), S. Shaked (Jerusalem, currently visiting at Berkeley), and A. D. H. Bivar (London).

On June 30, 1970, the Department will be sorry to lose through retirement the services of Richard C. Haines, who has so capably taught courses in Mesopotamian archeology over the past years.

The Oriental Institute Library

SHIRLEY A. LYON, *Librarian*

Since the founding of the Oriental Institute in 1919, its library has provided the researcher in the Near Eastern field of study—professor, excavator, student—with books and bibliographic services. It was not until 1924, however, with the appointment of Miss Johanne Vindenas, that the systematic acquisition of scholarly monographs and serials and the preparation and maintenance of a bibliographic catalogue came under the control of a trained librarian.

For forty years, under the extraordinarily skilled and dedicated Miss Vindenas, the book collection grew steadily into what eventually became probably the finest collection of Near Eastern materials in the United States and possibly one of a very few such collections in the world. It ranges through every phase of the Near East: art, literature, science, history, and philology. Holdings are particularly strong in Assyriology, Egyptology, and Islam (the Islamic collection includes Arabic texts and translations of history and the sciences as well as religious works). Holdings are virtually complete in Palestinology and Iranology; coverage is also excellent for Turkey and Northern Syria.

The card catalogue of the library was planned to be a bibliographic tool of the utmost use. To this end it was decided to include in it cards representing not only books shelved in the Oriental Institute Library but also books in other departments of the University of Chicago Library and other libraries in this country insofar as they relate to subjects of interest to the Oriental Institute. In addition to

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references to books, it was thought that cards for journal articles should also be filed there. The periodicals which have been analyzed fall into two groups: those which deal exclusively with the Near East, and those which touch it only occasionally or in part. Each article analyzed is treated in full, like a book, making it accessible under both author and subject. Long runs of journals have been completely analyzed, for example:

The American Journal of Semitic Languages and Literature, Vols. 1–58 (1884–1941)

Bulletin de l'Institut français d'archéologie orientale, Vols. 1–40 (1901–1940)

Zeitschrift für ägyptische Sprache und Altertumskunde, Vols. 1–76 (1863–1940)

Although systematic work on analyzing journals has not been done for about fifteen years because of the ever-increasing demands on the library staff time, the card catalogue as it has been constructed and maintained nevertheless remains a unique and indispensable tool for researchers in the Near Eastern field.

The library has so far had two homes. Until 1931 it lived with the Institute in Haskell Hall. Of the stay there remain now only memories and three inscriptions in the stone facing on the north side of the east entrance:

פתח דבריך יאיר

The unfolding of thy words gives light.

Psalms CXIX:130 (R.S.V.)

LUX EX ORIENTE

Light from the East

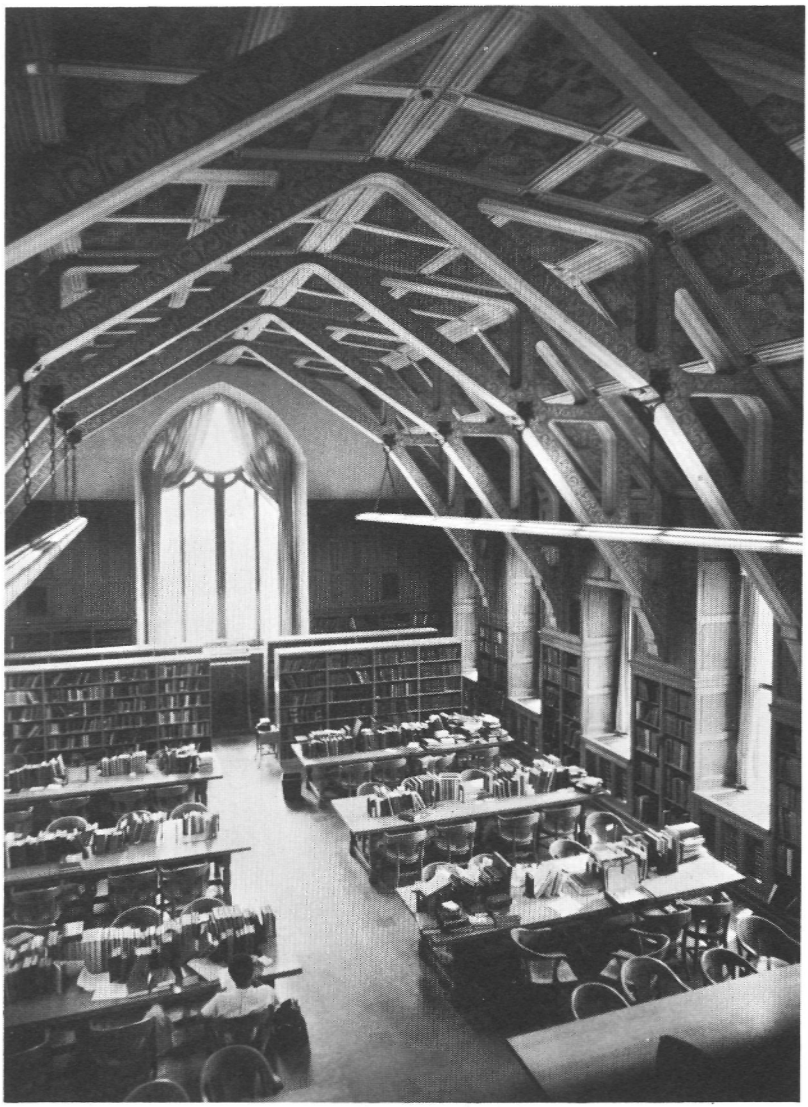
ΗΝΤΟΦΩΣΤΟΑΛΗΘΙΝΟΝΟΦΩΤΙΖΕΙ
ΠΑΝΤΑΑΝΘΡΩΠΟΝΕΡΧΟΜΕΝΟΝΕΙΣ
ΤΟΝΚΟΣΜΟΝ

The true light that enlightens every man was coming into the world.

John I:9 (R.S.V.)

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The Oriental Institute moved into its present quarters in 1931, and James Henry Breasted observed in his University of Chicago survey volume, *The Oriental Institute*, that the library reading room was



The Oriental Institute Library shortly before it was moved to the new Joseph Regenstein building in 1970. *Photo by Ursula W. Schneider*

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"the most beautiful room in the building. . . ." The high ceiling was done in white, light blue and cream, its beams painted to match. Ten hanging lamps framed the view of the long, lead-paned window at the south end of the room. Heavy, yellow oak reading tables and chairs provided reading space for eighty persons.

Soon after its installation in the new building the library began to feel the need for more space to accommodate the ever-expanding collection. First, book sections were added to the third-floor mezzanine stacks. Then gradually, one by one, the study rooms adjoining the mezzanine, which were originally intended for the use of fellows of the Institute, were absorbed by the library and became part of its stacks. In the middle of the 1960's two of the reading room tables and sixteen chairs were removed to make room for thirty-two free-standing book sections which were installed at the south end of the reading room.

The card catalogue has expanded with the book collection. In December of 1932 the catalogue contained about 85,000 cards, while the number of books shelved was about 8,000. As of the date of this writing the card catalogue contains about 283,000 cards and the books shelved number approximately 48,000. Reader use, also, has increased. When statistics first began to be kept, in 1941/42, book circulation totaled 8,687. Ten years later the figure came to 17,660. In 1961/62 it totaled 24,432, and last year (1968/69) reached a figure of 33,811.

During the summer of 1970 the library will leave the Oriental Institute building and be housed in the new Joseph Regenstein Library, where it will be integrated into the main library's humanities and social sciences collections. The reading room on the fifth floor of Regenstein will combine the reference materials and bibliographic services of what is now the Oriental Institute library, the Classics library, and the South Asian reference collection. Most of the material in the general collections (that is, non-reference) which pertains to these areas will be shelved in stacks close by the reading room. The new facilities will provide far better services for more readers than have been possible for many years.

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Publications

JEAN ECKENFELS, *Editorial Secretary*

In the spring of 1970, two of the Oriental Institute's major publishing efforts were completed: *Medinet Habu* and *Persepolis*.

With the appearance of *Medinet Habu* VIII: *The Eastern High Gate, with Translations of the Texts* ("Oriental Institute Publications," Vol. XCIV), the record in facsimile of all the reliefs on the Mortuary Temple of Ramses III and on the monumental three-story pleasure pavilion and entrance to the temple compound of Medinet Habu is complete.

The Medinet Habu project was begun by James Henry Breasted in 1924, when the Epigraphic Survey, under the direction of Harold H. Nelson, was initiated to "save for posterity the enormous body of ancient records still surviving in Egypt." To be sure, the Epigraphic Survey has recorded and published other monuments and a world war has intervened in these 46 years, but the huge task is now finished: This major Egyptian monument is available to scholars and to posterity in its entirety in as meticulously accurate a copy as it is humanly possible to make.

Volume VIII presents the reliefs and inscriptions of Ramses III, with marginal inscriptions of Ramses IV usurped by Ramses VI, on the Eastern High Gate, a structure unique among the extant ancient buildings of Egypt.

Seven years after work at Medinet Habu was begun, Professor Breasted initiated the excavation of Persepolis. Ernst Herzfeld, Professor of Oriental Archeology at the University of Berlin, became the first field director and was succeeded in 1934 by Erich F. Schmidt, who was then in charge of the excavation at Rayy. Professor Schmidt saw the first two volumes of *Persepolis* through publication, but the manuscript of the final volume, which he had completed shortly before his death in 1964, became entirely the responsibility of Mrs. Albert R. Hauser, who had edited the two earlier volumes.

Persepolis III: *The Royal Tombs and Other Monuments* ("Oriental Institute Publications," Vol. LXX) contains the report of the excavations at Naqsh-i Rustam and Persepolis, including the Kaʿbah-i

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Princesses in attendance on Ramses III (from *Medinet Habu* VIII). *Drawing by Barnwell*

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Zardusht, the Sasanian reliefs on the cliff of Naqsh-i Rustam and at nearby Naqsh-i Rajab, and the tombs of Darius the Great and his successors at Naqsh-i Rustam and Persepolis.

A further result of the Persepolis excavations that appeared in 1970 was Raymond A. Bowman's *Aramaic Ritual Texts from Persepolis* ("Oriental Institute Publications," Vol. XCI). One of the important discoveries of the expedition was this body of green chert mortars, pestles, plates and trays bearing Aramaic inscriptions. The fragments of these vessels were found in the ruins of the Achaemenid Treasury building, where they had been shattered against the walls by the soldiers of Alexander the Great. The vessels proved to have considerable significance because they provide tangible first-hand evidence of an aspect of Persian religion at the time of Xerxes and Artaxerxes I. The texts on these vessels memorialize occasions of the haoma ceremony in which the celebrants participated. Many of those who used the vessels are identified as the highest generals of the Persian army, corresponding in rank to Greek chiliarchs and myriarchs. It seems quite probable, therefore, that there existed in the Persian army during the Achaemenid period the rudiments of a religious cult, perhaps directed toward Mithra, the Persian god of war. Such a phenomenon is encountered later in the military Mithraism of Christian times.

Two new publications by I. J. Gelb, *Sargonic Texts in the Louvre Museum* ("Materials for the Assyrian Dictionary," No. 4) and *Sargonic Texts in the Ashmolean Museum, Oxford* ("Materials for the Assyrian Dictionary," No. 5), appeared in 1970. The first volume presents transliterations of all the unpublished Sargonic material in the Louvre Museum except that from Lagash and Susa. Nearly all the texts are administrative documents concerning animals (mainly sheep and goats, but also bovines) and grain (especially threshed barley). Twenty-one witnessed tablets make up a very important group of legal texts. One school exercise is included. Most of the texts come from clandestine excavations at Umma.

The second volume presents transliterations of texts in the Ashmolean Museum, most of which are from Kish and Umm-el-Jīr, near Kish. A few texts of unknown origin have also been included. The

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majority of these tablets are standard administrative texts such as are found in other great collections of Sargonic texts from Gasur, the Diyala Region, Lagash, and Susa. A small but important group of texts consists of contracts or memos concerning contractual agreements. Other types of texts are also represented, including letters, orders, school exercises, and one incantation. This is the first collection of Sargonic texts from North Babylonia. One of the most important contributions of the Kish and Umm-el-Jīr texts is the light they shed on the geography and ethno-linguistic background of Babylonia; forty geographic names are mentioned, the most common being Mugdan, which may represent the ancient name of Umm-el-Jīr.

The Oriental Institute Museum

GUSTAVUS F. SWIFT, *Curator*

The Museum was happily able to introduce a measure of variety into its exhibits during the past year. The season opened on October 7, with a one-day Chicago premiere showing of lunar samples which had been assigned for study to University of Chicago scientists. The object was to give the University community an opportunity to see these materials, and the Museum was the best place to accommodate the expected crowd securely. As a result, over 1700 visitors waited in line up to forty minutes to view a special display in the Babylonian Hall. The exhibit was prepared under the direction of the Field Museum, where it was next shown.

A week later, the Museum participated in the Institute's annual reception for its members by opening a month-long show of the work of Martyl, the Chicago painter who had visited our work sites in Turkey and Iraq. Her paintings were a record of the experiences of these archeological travels.

A beginning was made, through the efforts of Robert Hanson and Judith Franke, on the revision of some of the more permanent exhibits. The two alcoves devoted to Nippur were improved by the addition of new material and by rearrangement. Also, space

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Museum staff members Janice Caplan and Gerri Hannum enjoy a preview of the lunar samples exhibit in the Babylonian Hall. *Photo by David W. Nasgowitz*

was found in which to plan a more comprehensive display of our finds from Khorsabad. These steps are parts of a broader scheme for adapting available space to the present collections.

At the request of the Peoria Art Museum, in the Lakeview Center for the Arts and Sciences, Peoria, Illinois, a long-term loan exhibit consisting of over eighty Egyptian objects, as well as several pieces of Sumerian sculpture, was prepared and is now being shown there.

Coming mainly from the Oriental Institute's own excavations, the collections of cuneiform tablets, which are under the direct supervision of Professors I. J. Gelb and R. T. Hallock, form one of the most valuable parts of the Museum collection as a whole. Many thousands of these tablets, whole or fragmentary, have received only

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preliminary care and treatment in the field. The unfired clay of which they are made has absorbed, during centuries of burial, salts which, in Chicago's alternating humidity and dryness, re-crystalize at the surface and tend to crack and chip it away. The standard treatment is to give the tablets a permanent firing, mend them, and then soak the salts away in many changes of water. It is a pleasure to report considerable progress in this work during the past year, through the efforts of Mr. Aage Westenholz, Mr. Craig Umland, and Mr. Abdolmazid Arfaee. Nearly two thousand tablets and fragments have been processed. Special thanks are offered to Professor Harold Haydon, Director of the Midway Studios, who very kindly agreed to the use of his kilns, far more capacious than our own.

Changes in the Museum staff have been fairly numerous during the year, but fortunately, in each case, it has been possible to find replacements fully as capable as those who found it necessary to leave. David Nasgowitz's several years of part-time Museum Office work prepared him to take over when Janice Caplan's husband took her off for a year in France. Judith Franke, a specialist in Mesopotam-

Martyl's paintings on exhibit in the Museum interpret her trip to Turkey and Iraq with the Oriental Institute's Prehistoric Project. *Photo by Ursula W. Schneider*



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ian archeology, transferred from another University position to fill the vacancy as Registrar when Joan Gartland had to return to Michigan. Archeology student Susan Allen came back to Chicago just as Gerri Hannum moved to the office of the Department Secretary.

Museum attendance totaled 51,727 in the past year. Now and then, the Curator reflects upon the significance of such a figure. The Museum's clientele consists of our learned colleagues all over the world, of the University community, and of thousands of elementary school children, to name a few segments. One wonders how best to serve their interests through the content and presentation of exhibits.

Along another line, one knows that much of this attendance would disappear but for the enthusiastic and knowledgeable help of the volunteers who make our guide service possible and who staff our thriving museum shop, The Suq. In overall charge of this program, Mrs. John Livingood has not only organized another annual training course for the volunter, but has also launched, as a very promising new venture, a late-afternoon lecture course in Mesopotamian civilization for laymen, presented by Professor John A. Brinkman. Our warmest thanks are due to Mrs. Charles Shields, who has just handed over to Mrs. Richard Frank the chairmanship of the guide service, and to Mrs. Ezra Hurwich, who has assumed the responsibility of the shop.

Volunteer Programs

CAROLYN Z. LIVINGOOD, *Museum Secretary in charge of Volunteer Guide Program*

The Volunteer Guide Program has been functioning for four and a half years. In the first report, in the fall of 1967, it was stated that about 1,200 scheduled tours of the Museum of the Oriental Institute had been given in the first year and a half since the program's inception. Now the Docents give about 1,700 tours a year, to elementary, high school, college, and adult groups, as well as to many individual

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visitors. Each Docent contributes three hours of service a week, Tuesday through Sunday, on a yearly basis.

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Mrs. Roger Hildebrand with part of a tour of rapt sixth-grade students. *Photo by David W. Nasgowitz*

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On Mondays from 10 A.M. to 3 P.M., April 6 through May 25, 1970, new volunteers were given a training course by members of the academic staff of the Oriental Institute. For the time so willingly given to these lectures, we are grateful to: Robert McC. Adams, Klaus Baer, Raymond A. Bowman, Robert J. Braidwood, John A. Brinkman, Ignace J. Gelb, Stanley Gevirtz, Hans G. Güterbock, Richard C. Haines, George R. Hughes, Helene J. Kantor, Hans J. Nissen, A. Leo Oppenheim, Keith C. Seele, Gustavus F. Swift, Maurits N. van Loon, Edward F. Wente, and John A. Wilson.

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The Suq, the Museum Shop, is also maintained and serviced by volunteers who complete the Volunteer Training Course and by some student help. It offers for sale reproductions of ancient jewelry and artifacts, post cards, slides, prints, note cards, and books pertaining to the Near East. The Suq has earned funds for the Institute and has helped to make the Museum deservedly better known to Chicago and its surrounding community as well as to visitors from all over the world.

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Largely as a result of the Docent Program and the existence of the Suq, membership in the Oriental Institute has doubled since 1965.

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Condensed Statement 1969/70

BALANCE, July 1, 1969		
Restricted purposes		$ 20,039.21
General		47,518.96
TOTAL		$ 67,558.17
INCOME, July 1, 1969–June 30, 1970		
Members' Dues and Gifts		45,681.51
TOTAL		$113,239.68
EXPENDITURES, July 1, 1969–June 30, 1970		
Support of Oriental Institute Activities	$20,000.00	
1968/69 Annual Report	2,357.67	
Vehicle Purchased for Oriental Institute Field Work	2,139.62	
Museum Program	1,176.35	
Lectures, Entertainment and Miscellaneous	1,873.00	
Newsletters and Other Mailing Expense	759.19	
Prehistoric Project Expense	1,734.78	
Genizah Research Project	579.91	
Opening Lecture Seminar and Exhibit	3,799.57	
	$34,420.09	
Less 1968/69 Museum Expense Adjustment	1,327.22	
TOTAL	$33,092.87	33,092.87
BALANCE, June 30, 1970		$ 80,146.81
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