

The Oriental Institute Annual Report



1978/79

The Oriental Institute

The University of Chicago



Annual Report 1978/79
Sixtieth Anniversary 1919–1979

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Table of Contents

Introduction	I
From the Director 1 ■ Dedication 2 ■ “We Can Do It.”: Chicago Oriental Studies Before the Oriental Institute 5	
Archeology	18
Epigraphic Survey 20 ■ Prehistoric Project 27 ■ Chogha Mish 33 ■ Hamrin 41 ■ Nubia 50 ■ Carthage 52 ■ Quseir 60 ■ Yemen 62	
Philology	66
Ancient Society and Economy 68 ■ Materials for the Sum- erian Lexicon 72 ■ Assyrian Dictionary 75 ■ Hittite Diction- ary 76 ■ Demotic Dictionary 78	
Scholarship	86
Individual Research 88 ■ Research Archives 95 ■ Publica- tions 98	
Museum	102
The Museum 104 ■ Conservation 111 ■ Photography 114 ■ Membership 116 ■ Volunteers 119 ■ The Suq 124 ■ The Tripp and Schwartz Endowment Funds 128 ■ Visiting Committee 129	
People	130
Members 132 ■ Staff 158 ■ Membership Fund 161	

To the Members and Friends of the Oriental Institute

The Oriental Institute marks its sixtieth anniversary in 1979. After six decades of research into the history of early mankind, it is fitting that we pause for a glance over our past work and for a brief preview of things to come.

Since 1919 the Institute has been engaged in a variety of activities. More than twenty archeological expeditions have excavated or conducted areal surveys in countries of northern Africa and western Asia: Tunisia, Libya, Egypt, Turkey, Syria, Palestine, Israel, Iraq, Iran, Saudi Arabia, and North Yemen. Philologists and lexicographers have worked with many languages, including Akkadian, Arabic, Aramaic, Coptic, Egyptian, Elamite, Ethiopic, Greek, Hebrew, Hittite, Old Persian, Pahlavi, Sumerian, and Syriac. Historians—both social scientists and humanists—have studied the ancient civilizations of the same areas. These labors of research and interpretation have produced more than two hundred and fifty published volumes of excavation reports and text editions, archeological syntheses and dictionaries, cultural essays and histories representing the Institute's most tangible contribution to ongoing scholarship in the field.

Less tangible but perhaps of even greater significance are the Institute's uncatalogued assets: its faculty and staff, past and present; its pioneering in archeological, historical, and linguistic techniques; its training of generations of students. From these assets issue its hopes for the future.

The next sixty years will offer challenges and opportunities in unexpected areas and dimensions. Although the Institute will remain committed to such long-term projects as the Assyrian Dictionary and the Epigraphic Survey, most of its energies will continue to be channeled into the research directions chosen by its individual members. What questions should be asked? What

corners or highways of antiquity should be illuminated? Individual competence, combined with research flexibility, will enable the Institute to tackle the challenges of the future with high standards of excellence and with enthusiasm.

This year's Annual Report will chronicle the events of 1978/79. Our archeologists have gone out to Iraq (Üç Tepe), Tunisia (Carthage), Turkey (Çayönü), and North Yemen. The Demotic Dictionary project has come of age with the advent of a grant from the National Endowment for the Humanities. The first fascicle of the Hittite Dictionary is scheduled to go to press within a few weeks. The Epigraphic Survey and the Assyrian Dictionary continue their monumental progress. The Museum, under the assistance of a grant from the Institute of Museum Services, has been undertaking a much-needed renovation of its Palestinian Gallery.

During the past year, we have been fortunate in having Peggy Grant assume the chairmanship of the volunteers; her dedicated work and spirit of community have made this the most successful year yet for the donors. Georgianna Maynard has kindly served as Acting Manager of the Suq, in the absence of Ruth Marcanti. We owe a special debt of gratitude to them both.

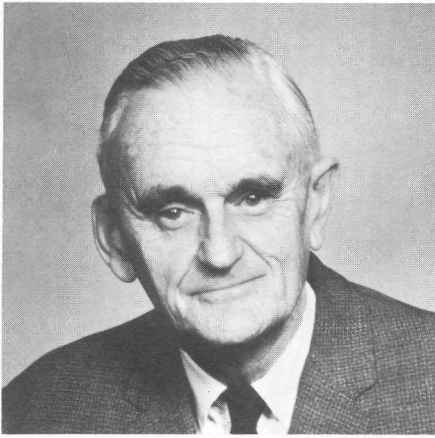
It is a pleasure to thank the Visiting Committee and its chairman, Margaret B. Cameron, for their splendid support and especially for sponsoring the "Demotic Dinner" earlier this spring. We are also pleased to acknowledge once again the continuing support of our many members and friends, whose interest and help have made possible many of the projects described in the following pages.

June 12, 1979

JOHN A. BRINKMAN
Director

Dedication

MICHAEL ROWTON began his studies in Assyriology at a much later stage in life than most of his colleagues, when he was serving with the British army of occupation in Europe after World War II. When he had completed his degree and his army service, he came to the U.S. and



served for several years on the Assyrian Dictionary project during the crucial stages when its initial volumes were being written and published. His areas of research have been wide-ranging and varied, and his impact in these fields has been substantial. In the earliest stage of his career, he wrote several definitive articles on the then highly fluid subject of Mesopotamian chronology; and it was largely his dispassionate and thorough weighing of evidence, summed up for the most part in his massive contribution to the *Cambridge Ancient History*, that tipped the balance in favor of the “middle chronology,” which has dominated the field for the past two decades. In the area of grammar, his masterful monograph on the Babylonian permansive revealed whole new ranges of meaning for this poorly understood form. Over the past dozen years, he has been pioneering new areas of research on the geography, ecology, and social landscape of Mesopotamia and Western Asia. These studies have appeared gradually in articles; but he hopes to collect many of them, especially those studying tribal societies and related institutions, into a monograph in the near future.

It is our pleasure to dedicate this volume of the Institute’s annual report to Michael Rowton on his seventieth birthday—with respect, appreciation, and affection. His years as researcher and teacher at the Institute have made the fields of Mesopotamian studies immeasurably richer.



“We Can Do It.”: Chicago Oriental Studies before the Oriental Institute

Peter T.
Daniels

It is July 1, 1895. This is the first cornerstone-laying ceremony at the University of Chicago. The other buildings, some of them in use for almost three years, were merely built; but this one is special. This is Haskell Oriental Museum. The principal speaker is the Reverend John Henry Barrows, the man who suggested the inscriptions for the cornerstone. Next to the lectern sits President William Rainey Harper, his mortarboard perched at a peculiar angle the way he wore all his hats. He had the knack of falling asleep for exactly as long as he wanted and waking up without seeming to miss anything. While he claimed that he never did that when he was on a podium waiting for someone else to finish speaking, our photograph certainly suggests otherwise in this case. The speech he may have missed was essentially the same as the letter in which Dr. Barrows discussed his choices, with some oratory added. The cornerstone reads “Light from the East” (“Lux ex Oriente” in Latin), “He was the true light which coming into the world enlighteneth every man” (in Greek), and “The entrance of thy words giveth light” (in Hebrew). The letter explains:*

My Dear Dr. Harper:

I enclose suggestions—as requested, for inscriptions on the cornerstone of the *Haskell Oriental Museum*.

The first, in the language of universal scholarship—tells the story of Religion. It has come from the *East*, all the great religions have. It also describes the *Oriental* character of the studies in the Haskell Oriental Museum.

*The photographs and original documents used in this article appear courtesy of the Department of Special Collections of the University of Chicago Libraries. I especially want to thank Mr. Albert M. Tannler, the Archivist, for guiding me through his domain. The principal printed sources are *William Rainey Harper* by Thomas W. Goodspeed and the serial publications of the University including the *Quarterly Calendar* and the *Record*.

The second—in the language that will be largely studied in this building, tells the truth about Christ which is really the basis of the *Christian* science of Comparative Religion.

The third—in the language of the greatest of races—a language which, with its cognate languages—will be unceasingly linked with studies in the Museum—tells a universal truth—in regard to *all divine revelations*.

All the inscriptions are about Light. The East is the realm of Light. Christ is Light. Divine words give Light.

This is all the light I can throw on this question.

Faithfully yours,
John Henry Barrows

Ours is a *Christian* University—and it is appropriate to place on *this* foundation-stone—the three languages used in the inscription on the Cross of Him who is *our* Foundation-stone.



The Rev. John Henry Barrows speaking at the cornerstone ceremony of the world's first building devoted exclusively to Oriental studies

The Christianity of the University was not a matter of denomination, though in the early days newspapers frequently called it the Baptist university; rather it was Christian in that Christianity stands for freedom and brotherhood of all. This attitude, unusual for the time, reflects the character of William Rainey Harper.

WRH was born into a devout New Concord, Ohio, family on July 24, 1856. Will was a fairly normal boy, though he preferred reading books to playing with his friends. Able to read at age three, he was admitted to the Muskingum College preparatory school at eight and became a freshman in the college proper two years later. He was about ten years younger than his six classmates. Three of them were preparing for the ministry and wanted to study Hebrew. The whole class liked the idea and they took up the language. At graduation it was customary to have orations in English, Latin, and Greek, by the star pupils; but the class of 1870 had studied Hebrew as well, and were doomed to giving one in that tongue too. WRH was chosen by lot to do it, and that happy accident seems to have pointed him in the direction of his career. What would those Ohioans have thought if they had realized they were in effect attending the thirteen-year-old's *bar mitzvah*?

For the next three years WRH clerked in his father's store, continued to study Hebrew, fell in love with the daughter of the college president, gave organ lessons, and conducted the village band. In the year 1872/73 he was asked to teach Hebrew at his alma mater, and began to develop the "inductive method" that later brought him fame. It became obvious that WRH should continue his studies. His family could not afford to send him to Europe, so he went to Yale College, which was then just beginning to achieve its present eminence. There he studied under William Dwight Whitney, America's first great linguist, and in 1875 was awarded the degree of Ph.D. for his dissertation, "A Comparative Study of the Prepositions in Latin, Greek, Sanskrit, and Gothic."

Hebrew teachers were not in great demand in those days, so WRH secured the principalship of Masonic College in Macon, Tennessee. He married his childhood sweetheart and moved south. Instructing in math and Latin at least, there he discovered that he was a great

teacher. After one year at Macon a friend from Yale lured him to the preparatory department of Denison University, back in Granville, Ohio. He still did not get to teach Hebrew, but was so successful at Latin and Greek that he was made principal of the school. While living in Granville Harper felt a religious calling and became committed to a Christianity that thenceforth guided his studies and aims.

Harper's big break came after two and a half years at Denison. Though loath to let him go, the president of



Mrs. Caroline Haskell

that institution recommended him to the Baptist Union Theological Seminary in Morgan Park, Illinois, just outside Chicago. Thomas Wakefield Goodspeed was the Secretary, and John D. Rockefeller was its principal patron. The Seminary had been looking for an instructor in Hebrew, and WRH took that position. This involved a decrease in pay, but, as Goodspeed writes, it was what WRH had always wanted—"the teaching of Hebrew to men instead of Latin and Greek to boys." The Seminary was looking for an instructor. It did not expect to get a man who in his first year (1879/80) in addition to teach-

ing his classes managed to attend so many that he earned his own B.D. degree. He was made full professor and chairman of his department after that.

WRH induced a student from Denison, Ira Maurice Price, to follow him to Morgan Park, and for this part of Harper's career we have a fascinating memoir of his, possibly written in the late 1920's as source material for Goodspeed's biography. A rough draft of this manuscript survives in the University Archives. Price writes that in 1880 he constituted the entire Hebrew class—he



Thomas Wakefield Goodspeed

learned a year's work in seven weeks by the inductive method. ("The professor himself said that that class of one student was the beginning of the Hebrew summer schools.") The explanation of the inductive method given by Harper in several of his books is clear enough:

The order of work which it advocates is, *first*, to gain an accurate and thorough knowledge of some of the "facts" of the language; *secondly*, to learn from these facts the principles which they illustrate, and by which they are regulated; *thirdly*, to apply these principles in the further progress of the work.

This is substantially the way linguistic science today advocates that languages be taught.

During the year 1880/81 WRH was occupied in preparing the first of his textbooks, *Elements of Hebrew*, a grammar which is still in print and remains useful to this day. Price claims that the professor “became so engrossed in Hebrew that at the end of the Seminary year when he signed his name to the diplomas of the graduates, he wrote ‘William R. Hebrew.’” Also during that year six men, including Ira Price, spent their Christmas vacation with Harper reading the Hebrew Bible eight hours a day for ten days. Year after year the Morgan Park authorities noted an extraordinary enthusiasm for Hebrew on the part of the student body—an enthusiasm that apparently did not spill over into their other subjects.

For the summer of 1881 WRH decided that the Seminary buildings should not be allowed to stand empty over four months. He organized a Summer School of Hebrew. It started with twenty-three of those enthusiastic students, but grew quickly in the following years and became famous. In 1883 a second school was established at Chautauqua, New York, in connection with the great education factory based there. (Nor was that the extent of WRH’s relation with Chautauqua: he was soon made principal of the College of Liberal Arts.) By 1886 there were five Summer Schools of Hebrew scattered across the country, each of them requiring WRH’s personal attendance. Meanwhile, there were many people who for one reason or another could not attend a School in person, so Harper made up lessons to be worked by mail. (Price has a different version. He says, “Some time during the summer of 1881, the *Journal & Messenger*, a Baptist weekly paper of Cincinnati, carried an advertisement of a Jewish Rabbi who proposed to teach Hebrew by correspondence. Dr. Harper, in view of that ad, said to me, ‘If a Jewish Rabbi can teach Hebrew by correspondence, we can do it.’”) At any rate, whatever the genesis of the course, it developed into the *Introductory Hebrew Method and Manual*, the lesson-book companion to the *Elements*.

Also at this time WRH needed a journal to unite his students and colleagues, and founded two: *The Hebrew*

Student (which became *The Biblical World*) for laymen—it survives as *Journal of Religion*—and *Hebraica*, now grown into *Journal of Near Eastern Studies*, which was to contain articles of scholarly interest. WRH continued to edit both periodicals until his death in 1906. (It is curious that his own articles, no matter how technical, appeared almost always in *The Biblical World* and seldom in *Hebraica*.) Harper's summary of the fivefold purpose of *Hebraica* characterizes his concerns at this time:

To furnish a medium for the discussion of Semitic topics by Semitic scholars, to encourage and aid those who are in the ministry to engage in Semitic study, to advance, if possible, the interests, and to increase the efficiency of the Old Testament department in our various seminaries, to advocate the introduction of Semitic studies into our Universities and Colleges, and to form a bond of connection between the widely scattered members of the Hebrew Correspondence School, *Hebraica* is sent forth.

A man with such ambitious plans could not go unnoticed by the scholarly world. In April of 1886 Rockefeller informed Goodspeed that Yale University wanted its illustrious alumnus to join its faculty. They tried to keep him in Chicago by making him president of the nearly defunct Old University of Chicago (which subsequently expired), but he moved to New Haven that summer, taking with him editorial offices, a complete Hebrew printing shop, and a passel of assistants. There he was made Professor of Semitic Languages in Yale University, instructor in Hebrew in Yale Divinity School, and Woolsey Professor of Biblical Literature in Yale College. Simultaneously he was associated with Chautauqua, in charge of his own enterprises (publications, journals, schools), giving four lecture series outside Yale, and committed to returning to Morgan Park for the month of January to run a Hebrew school. Meanwhile he wrote textbooks on the inductive method for Greek, Latin, and English. His Yale years also (somehow!) saw the production of the first of his major scholarly contributions, a long series of articles on the "modernist" side of the Pentateuchal Question. WRH argued in favor of the Sources theory of the authorship of the first five books of the Bible, as opposed to the traditional, Single Author view. This position earned

him considerable criticism from the more conservative clergy.

About this time Rockefeller was becoming interested in establishing a center of learning to be the climax of his philanthropies. He was pressured to site it in New York, but perhaps through the influence of Goodspeed decided that it should be in Chicago. He arranged a “coincidental” meeting with WRH in October, 1888 that lasted fourteen hours, and the University of Chicago was born. Yale put great pressure on Harper to remain there, but in vain; he took up his duties as President on July 1, 1891. Armed with pledges from Rockefeller and Chicago’s leading citizens, WRH almost singlehandedly built the buildings and assembled the faculty. The University opened its doors to students on October 1, 1892.

Harper had made himself Head Professor of the Department of Semitic Languages. He had also seen to it that his department would not be under the control of the conservatives who had given him trouble a few years earlier. The new University included a Divinity School—the old Baptist Union Theological Seminary of Morgan Park—but WRH placed his department, and the New Testament Greek department, in the University proper, not in that Divinity School. Because of this arrangement the Semitic department was from the beginning one of the largest in terms of the number of courses offered and number of students registered for them, since Hebrew was required of divinity students then. However, we learn that by 1914 the department had had only thirty-six students of its very own. The faculty of Harper’s department numbered seven. Several of them had followed him from Yale, including his Assyriologist brother, Robert Francis Harper, and a young Egyptologist who just barely squeaked in as a Non-Resident Fellow, James Henry Breasted. Also included were WRH’s old student Ira M. Price, who came with the Divinity School, and Emil Hirsch, Rabbi of the Sinai Congregation of Hyde Park. Rabbi Hirsch, grandfather of the former president of the University, Edward Hirsch Levi, gave courses in rabbinic literature and languages for many years.

The courses taught in that first quarter included Elementary Hebrew (WRH or IMP), three more ad-

vanced Hebrew courses, elementary Arabic (WRH), and elementary Assyrian (RFH). There were also classes in archeology and ancient history. By the second quarter the announcements included very much what they do today. For the first four years of the University the department was housed in a few rooms on the fourth floor of Cobb Hall, the first classroom building. (The President's office was on the first floor, containing a large roll-top desk; after WRH's death, this desk was moved to the office of the Dean of the Divinity School, and it is now catalogued as a document in the University Archives.)

One of the duties of a university president is raising money. Harper was very good at this. He had no difficulty in securing various scientific laboratories and dormitories, but no one seemed to want to aid his scheme for what he called laboratories for the humanities. WRH envisioned a series of buildings to be devoted to the study of literature and culture, one each for the Orient, Greek, Latin, and modern languages. He acquired the building for Oriental languages almost by accident. During 1893 a series of matching grants was offered, culminating in a half-million dollar subscription from Rockefeller that had to be equalled by July 1, 1894. In the beginning of June the Trustees were beginning to despair, and Harper and Goodspeed went out canvassing. As they were about to give up for the day and return home, they recalled that Mrs. Caroline Haskell was in town. She had already given \$10,000 for a lecture series on Comparative Religion (stimulated by a committee of the World's Columbian Exposition, which had been situated just across the street from the University), but WRH went to see her anyway. He explained his position and asked for money. She wanted to provide a memorial for her recently deceased husband, Frederick, and offered a building. He asked for an Oriental Museum. She pledged \$100,000. That sum was exactly enough for the construction of Haskell Museum.

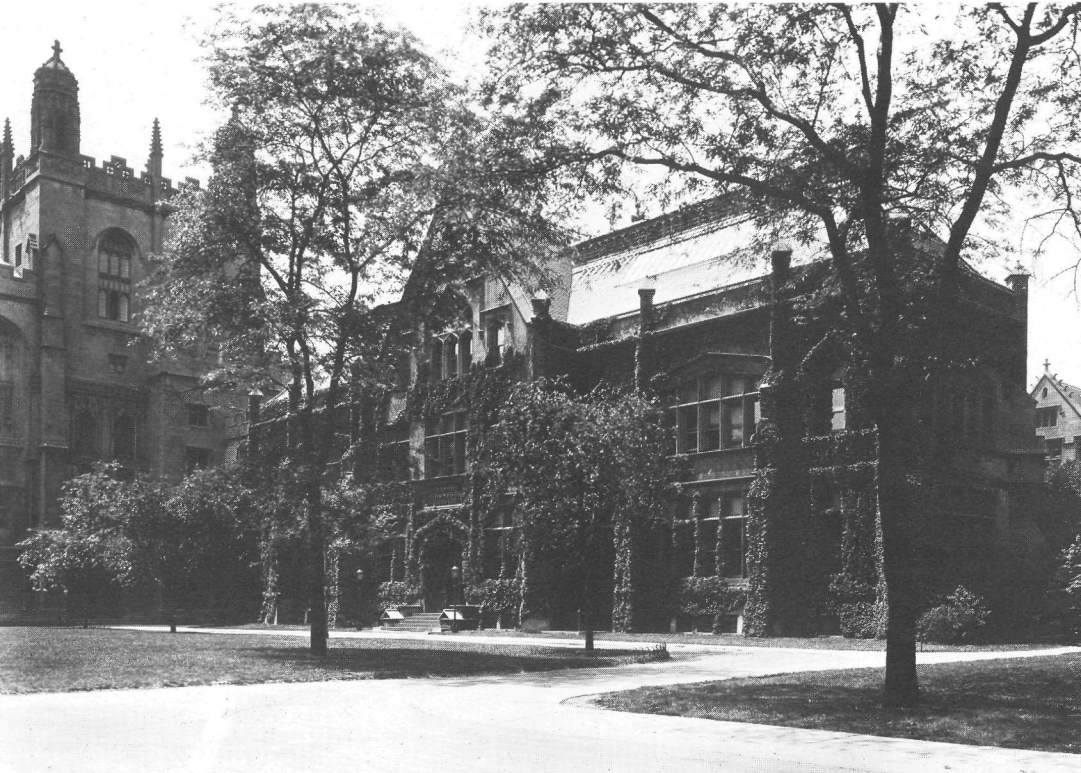
The cornerstone was laid one year later; the building was dedicated just a year after that. The 1896 ceremonies included the first visit of The Founder, as John D. was known around here for many years, to the University; but there is no evidence that Mrs. Haskell ever saw her building. The building was supposed to house

an Egyptian museum and an Assyrian museum on its first floor; a Palestinian museum, lecture rooms, and offices on the second floor; and a Comparative Religion museum, a library, lecture rooms, and offices on the third floor. In order to fill up one of these museums, the Chicago Society of Egyptian Research was organized in 1897. It supported the work of Flinders Petrie in Egypt and the bringing to Chicago of “a just share of the antiquities thus discovered,” and intended to inform its members concerning the civilizations being investigated. For only five dollars a year they were to receive a “large annual volume richly illustrated” and might attend the annual meeting at which the year’s work was discussed. In those days one could excavate the entire temple at Coptos for \$1500, or “clear up thoroughly” a site at Thebes among the royal mortuary temples for \$3000.

Unfortunately Haskell Oriental Museum could not be used according to its design. The Divinity School had no home of its own and was temporarily housed in Haskell. For thirty years. It occupied the first floor, with its library on the third; the Oriental Museum had one room on the second floor. Despite this difficulty, the department continued to grow. In the four quarters of 1900/01 the Department of Semitic Languages and Literature offered 127 courses; by 1906/07 the total was up to about 260. A curious setback occurred about the turn of the century, though. Recognizing that times were changing, WRH decided to make the study of Hebrew optional for the men in the Divinity School. He expected some decline in enrollment at that, but was not prepared for the sudden decimation that ensued. He offered to give the elementary course himself, but even that greatest of teachers could not lure more than a handful of students, and Harper’s literary secretary and subsequent editor, J. M. Powis Smith, took over.

WRH continued to give his time to Chautauqua until 1897; he had his eye on every detail of the University’s administration; he regularly taught courses—at 7:30 A.M. (in Autumn, 1894, twenty-six students were registered, one of whom lived at 2426 West Ohio, a distance of twelve and a half miles as the streets run!); he was a model editor of his journals, contributing articles to nearly every issue, and to other periodicals as well; in

1897 he took over the Sunday School of his church, the Hyde Park Baptist, and produced a new curriculum for it; and about the same time he began his principal scholarly work, an edition of and commentary on the books



Haskell Oriental Museum in an early view (the cornerstone is barely visible to the right of the door). The building later housed the Graduate School of Business, and is now being renovated for the Anthropology Department.

of the prophets Amos and Hosea. These are only the highlights of his work in Semitics.

But much of Harper's creative work can be ignored in an article on his Semitic scholarship. It is irrelevant that he was the first president of America's first great university, that he was the first man to hire women or Jews as professors, that he assembled the finest faculty in the world in all fields on the strength of a vision. I do not need to mention that he invented the academic quarter

system, the idea of a major field of interest for students, the university press, and university extension courses. Suffice it to say that probably the greatest loss ever suffered by American education was the death (from intestinal cancer) on January 10, 1906—before his fiftieth birthday—of William Rainey Harper.

No adequate biography of WRH has yet been written. But not even the shortest sketch can be complete without the appreciation written by John Huston Finley, president of the City College of New York, in a memorial article in 1906:

(His) was the achievement of three men, and of three extraordinary men. It was as if these three men of the same basic character, having all much in common and having each a sympathy with the others, yet differing in their possessing interests and their intellectual gifts, were joined together in a loyal and enduring union. The great bounding heart was common to all. And they all worked together always. Only they divided their time among the interests of these three great men. Now it was teaching to which he gave himself with the strength of three men; another hour or another day it was to study, to the seeking of a scholar; and then the next hour or the next day it was the complex and tangled task of the executive to which this man of three men's brains set his hand. By this cooperation he accomplished what three men working independently, though of great ability each, could not have done.

The period after Harper's death was one of retrenchment for the University. He was succeeded as President by Harry Pratt Judson, who was determined to end the profligacy that WRH's charisma had made possible and to balance the budget. He succeeded, but at some cost in imaginativeness and scope to the University's programs. One result was that Breasted was unable to return to Egypt for a third season of epigraphic survey work (the funds for which had been transferred from the expedition at Adab, in Mesopotamia, which WRH had himself traveled to Constantinople to arrange in 1903, when its leader was accused of less than honorable conduct). Instead, he stayed in Chicago and composed the textbook *Ancient Times*, a sensational best-seller, which was directly responsible for the founding of the Oriental Institute in 1919.

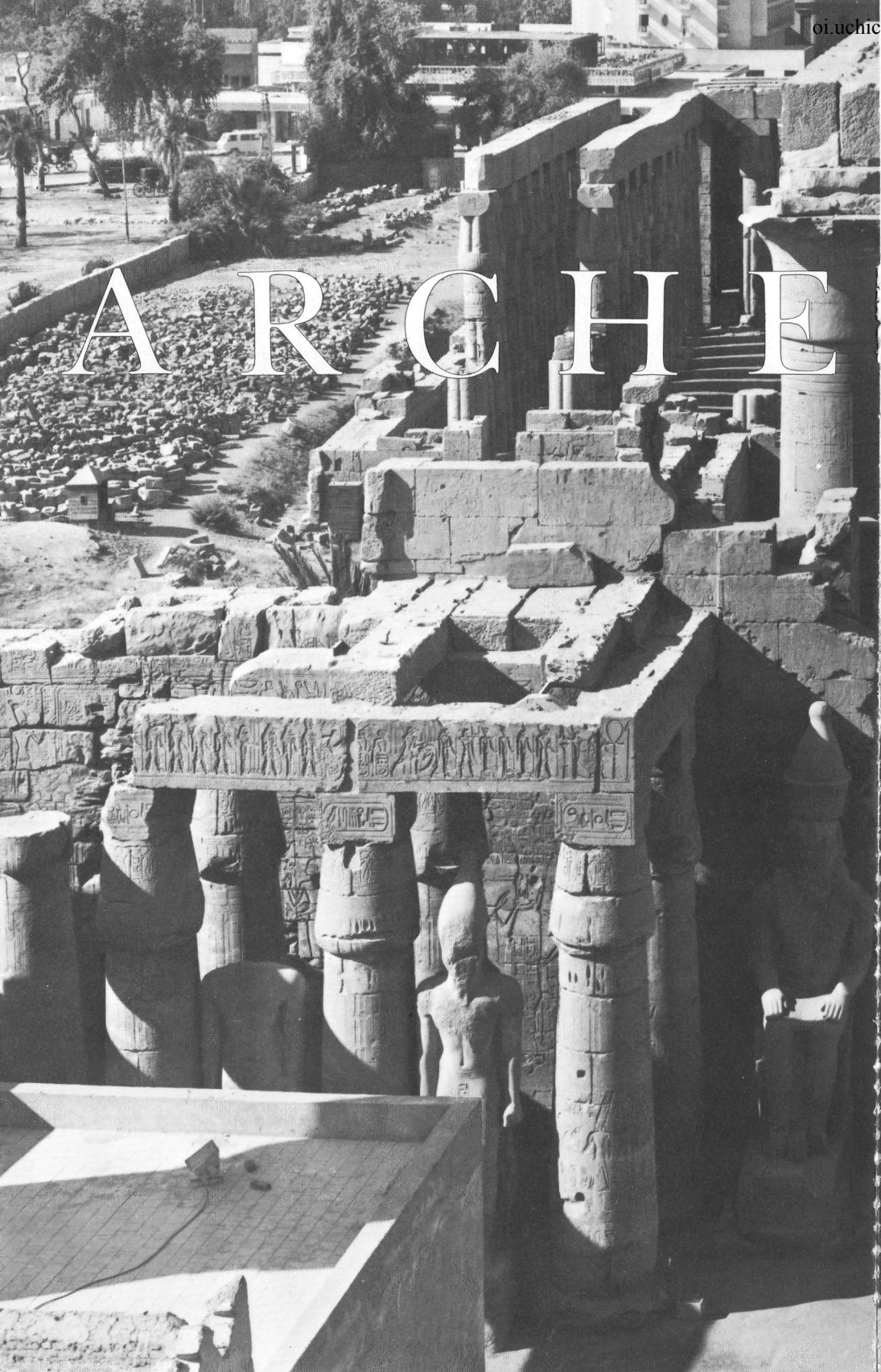
Another Harper who died young was WRH's brother

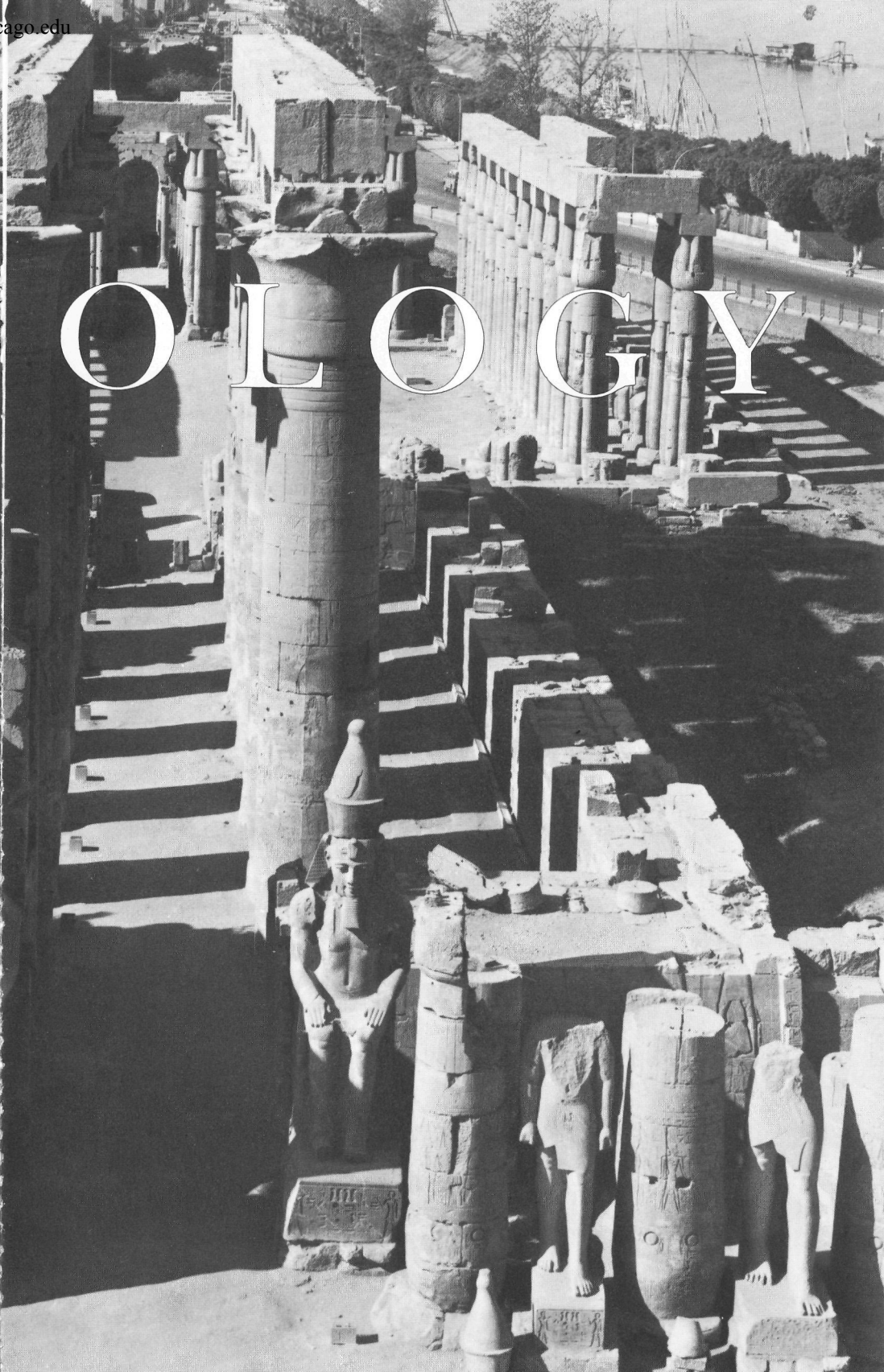
RFH (1864–1914). One of three faculty members of the University who had graduated from the Old University of Chicago, in 1883, his technical training was at Berlin, and he was the epigrapher on the very first American dig in Mesopotamia, the University of Pennsylvania's Nippur Expedition of 1888/89. A reputable scholar—his editions of the Code of Hammurabi and Assyrian and Babylonian letters (fourteen volumes) are still consulted—and a fine teacher—forty percent of the Ph.D. degrees awarded in the Oriental Studies department during his time were to his students—RFH suffered from both the shadow of his prodigious brother and the antipathy of JHB; he deserves a biographical study in his own right.

These are the principal forerunners of the present ancient Near Eastern scholars of today's Oriental Institute. Members of today's faculty can trace their educational lineage directly to these giants, as can many scholars throughout the world. Our understanding of ancient times and of the history of western civilization would be very different, and probably rather smaller, without the achievements of William Rainey Harper and his company.

On the following two pages: Luxor colonnade as seen from the north, with stone fragments visible at the right and left.

ARCHE





The Epigraphic Survey

Lanny Bell

The 1978/79 season of the Epigraphic Survey was a year of crisis. The death of Hagg Ibrahim Mohammed Abd el-Rahman on December 19, at the age of nearly sixty-seven, was a truly momentous event in the history of Chicago House: suddenly we were without our *ra'is* ("foreman") of the past thirty-five years. Employed since January 1, 1928, at first as photographer's assistant, he faithfully served every one of the Survey's seven Field Directors and two Acting Field Directors, who came to rely on his judgment and experience in the day-to-day running of Chicago House. The inevitable passing of his era had been foreseen, and we had begun to prepare for it: most of the storage magazines were cleaned out last season and their contents identified with his help; and the driver's illness this fall had given me the opportunity to accompany the Hagg on his daily rounds through Luxor. During his final, brief illness it became necessary to assume personal control over every aspect of our operations, assisted enormously by our Chief Engineer, Mr. Saleh Shehat Suleiman, and our Consulting Egyptologist, Dr. Labib Habachi. The transitional period which followed his death presented an appropriate occasion to make some administrative adjustments. In fact, the management of the Epigraphic Survey's business is now so complex that Hagg Ibrahim cannot be replaced by a single individual; but responsibility for his duties will be shared by three persons, in addition to the Field Director.

We also lost our new Slingsby multi-storied ladders, the first to be acquired for the Epigraphic Survey since 1931, in a fiery collision on the highway at Samalut, a town near el-Minya in Middle Egypt; the accident took the life of the driver who was transporting them from Cairo. Having arrived safely from England, where we

had ordered them more than six months before, they were destroyed just 280 miles from Luxor. Then a few days later our last intact three-story ladder split while in use, the second of our tall ladders to break this season. These ladders must be replaced as soon as possible; without them our work is seriously handicapped.

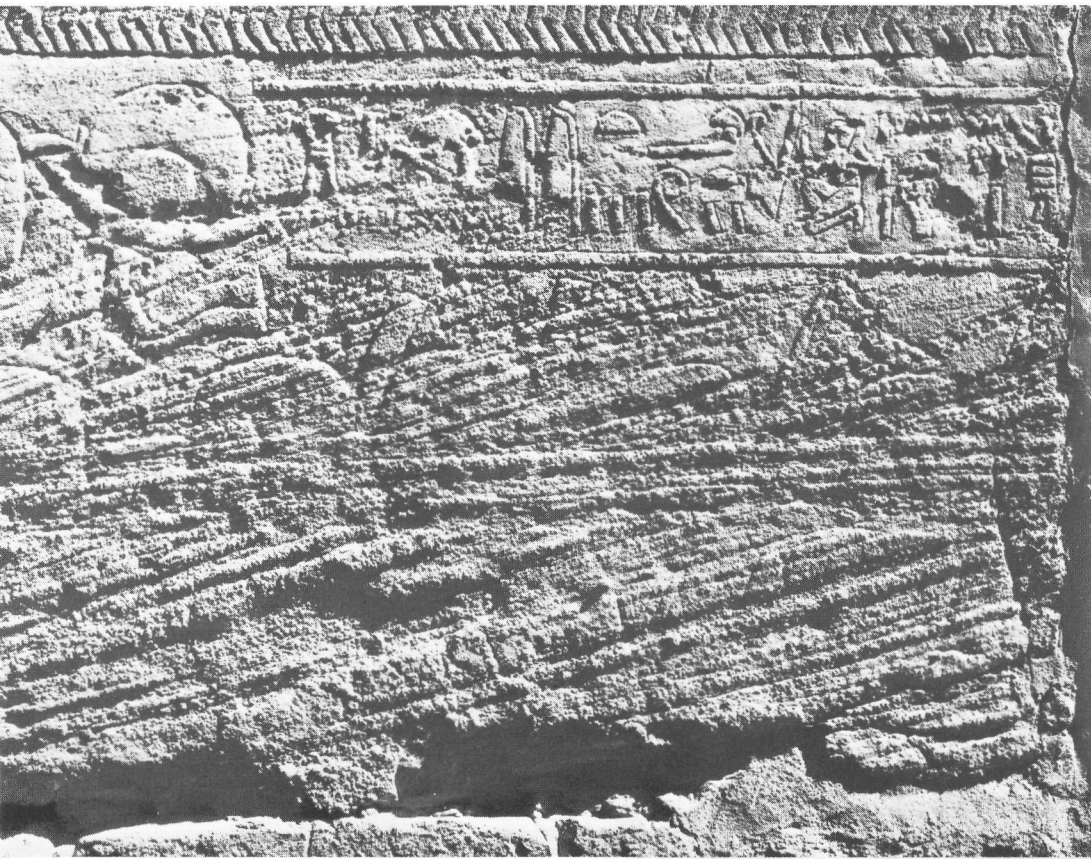
We had taken possession of our new 1978 twelve-seat Land Rover station wagon in October, which permitted us to begin rebuilding our 1963 Land Rover in preparation for transporting it to the West Bank when we resume work at Medinet Habu. After fewer than 5,000 kilometers (3,000 miles) on the new car, however, a broken gear threw us once more back onto the old Land Rover and our dependable 1950 Chevrolet. As of June, the Land Rover gearbox was in Cairo still awaiting repair.

The age of the physical plant at Chicago House, opened in 1931 and expanded in 1933, continues to be a problem. Remarkably well built, the various structures within our compound have functioned for nearly fifty years with an absolute minimum of maintenance; but now all the water pipes and electrical wiring need to be replaced at once. Just at Christmas time, with the house full, emergency repairs to a broken pipe in the heating system meant tearing up a section of the library floor; a second leak has not yet been located, so we do not know what further damage may occur. A heavy rainstorm on May 3, one of three rains at Luxor this spring, left up to two inches of water standing on our flat roofs; it took about two hours to sweep this off to prevent seepage through the ceilings below. This water also shorted out an exposed wire whose insulation had become brittle and cracked. This season we replaced the water pipes running through the garden, for which we also brought fresh topsoil. We prepared to install a new water tank, lifted the old dock (which had slipped beneath the Nile at the foot of our landing), cleaned the kitchen water-settling tanks, and repaired some of the masonry. These and other factors led to my own presence in Luxor from October 3 to June 1, well beyond our official six-month field season.

The greatest specter facing us is the prospect of the immediate loss of forty per cent of our current funding

because of the discontinuation of the PL-480 “counterpart” program, under which the Epigraphic Survey has received support since 1963. The present year’s grant came through the Smithsonian Institution’s Foreign Currency Program, and was administered in Cairo by the American Research Center in Egypt. The future looks bleakest for us at a time when American-Egyptian ties are at their closest: the “excess currency” with which we have been able to operate is now committed to other, governmental projects. The appeal for public and private funds must now occupy a good deal of the Field Director’s time. Only in this way will we be able to maintain our own work at the present level while continuing to provide basic research facilities and a great variety of other services to visiting scholars from all over the world.

Our scientific work proceeded against the background of these trials. In addition to those already mentioned, the professional staff for our fifty-fifth season included my wife Martha, responsible for the smooth running of



the house and the comfort and health of the residents and visitors; Dr. William Murnane, Mr. Mark Ciccarello, and Ms. Ann Roth, Epigraphers; Messrs. Richard Turner, Francis Howard, and Thad Rasche, Artists; Mr. Michael Langenstein, Photographer; and Miss May Trad, Librarian. Through a generous private donation we were joined for the month of December by Mr. Sidney Huttner, Assistant Head of Special Collections in the University of Chicago Libraries, who conducted a survey of the needs of the Chicago House library. Preliminary conclusions are optimistic, due in large part to the stability of temperature and humidity inside the library building. During the course of the season we prepared three hundred volumes for binding or rebinding. We have also begun copying the deteriorating negatives in our adjacent photographic archive, with 106 out of the first 1041 of the series already rescued in this way.

Though we had hoped to begin our new project in the

Procession scene in the Opet festival.





Usurped cartouches of Tutankhamun, whose names are clearly visible beneath those of Horemheb.

Eighteenth Dynasty Temple of Medinet Habu this season, we once more found all our efforts devoted to the Tutankhamun colonnade at Luxor Temple, working in the more inaccessible areas of the walls and on the gigantic columns themselves. We are collecting even the graffiti scratched onto these columns in the last century, to help document the modern history of this hall. While examining the architectural details of the southern gateway, we discovered a completely unknown inscription dating to the Ptolemaic or Roman period. Unfinished, badly faded, painted in red ink on the deteriorating pink sandstone, it had escaped all previous notice. We experimented with the use of ultraviolet light to improve its legibility, but the effect was negligible. We achieved much better results by employing the strong Sound and Light lights installed at the base of the western wall of the colonnade to collate our copy of the marginal texts under the representations of the Opet festival. The new perspective on the reliefs caused by lighting them from below helped confirm the existence of some traces which had been seen only faintly by daylight.

A final systematic search was undertaken of the thousands of stones piled up within the temple enclosure, in an attempt to identify more blocks which are certain to have come originally from the walls of the colonnade. We now have about two hundred fifty fragments to include in our final publication. In the course of this work we also located some thirty fragments representing approximately one fifth of the original version of the so-called "Bentresh stele" (Louvre C 284). Previously known only from a single late copy, the events related in this story—including an oracle of Khonsu during the time of the Opet festival, a royal marriage to a princess of the land of Bekhten, demonic possession and a miraculous cure—are attributed to the reign of Ramesses II. As the search continues for more pieces of this fascinating text, it is to be hoped that details of its orthography and paleography (the style of its hieroglyphs) will give a clear indication of the actual date of its composition.

The purpose of the Epigraphic Survey is the thorough and meticulous documentation of the decoration of deteriorating and endangered monuments. Our publications are of use to those interested in the content and style of the scenes and texts we record, showing the minute details which are difficult to see in photographs or on the original, and indicating the traces which are visible in damaged areas, giving translation and commentaries, including a history of the decoration and its modifications, and a study of orientation of the decoration and the use of space within scenes, between scenes, and as seen in the architectural and natural settings. Our unique method, based on committee consensus, assures the extreme degree of accuracy we strive for. Every finished drawing has been approved by five specialists: a photographer, an artist, two epigraphers, and finally the Field Director. Successful staff members learn to resolve their professional differences without allowing personal feelings to interfere with their objectivity. Likewise, in terms of the social conditions on the expedition, concern for the common good must be paramount. Living and working together in a small community in relative isolation for six months, each staff member shares responsibility for the smooth running of the household.

Because we must reduce three-dimensional relief to two-dimensional line-drawings, we are aware that the results represent a compromise with reality. We attempt to render every significant detail of the relief in such a way as to be faithful to the visual impression of the original, using conventions which are consistently applied and easily readable. We are willing to consider the employment of new techniques to minimize our efforts without sacrificing the high degree of accuracy and reliability which characterize our productions. On the practical side, we are always constrained by considerations of scale, drawing technique and materials, printing techniques, and costs. But satisfactory results cannot be achieved by a simple mechanical process; they depend rather on skill, judgment, and experience. We are representing an art; and our drawings are not lifeless, but an art form in their own right, reflecting the individuality of the persons who worked on them. We can now confidently look forward to the publication of our next collection of drawings in the forthcoming volume of *Khonsu I*.

Finally, we wish to acknowledge once more the generous assistance consistently extended to us by the officials of the Egyptian Antiquities Organization in both Cairo and Luxor, especially Mr. Mohammed el-Sughayyir, Director of Antiquities for Southern Upper Egypt; the members of the Franco-Egyptian Center at Karnak, especially MM. J.-Cl. Golvin, Cl. Traunecker, A. Bellod, and J. Larronde; and Dr. Gerhard Haeny, Director of the Swiss Institute in Cairo. We were pleased to welcome at Chicago House this year more than a dozen Oriental Institute members travelling individually through Egypt, as well as the Oriental Institute's Egyptian tour. We encourage our friends and supporters to visit us whenever they are able.

The Joint Prehistoric Project

*Linda and
Robert J.
Braidwood*

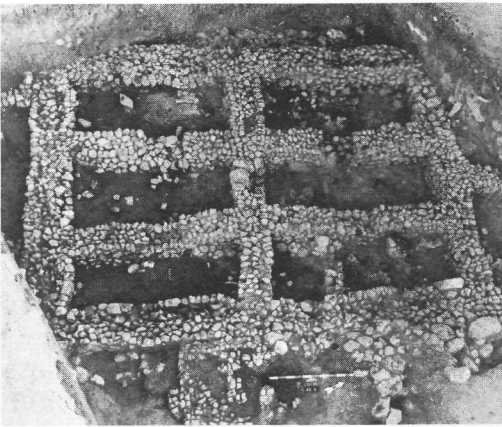
In September of 1978 it became possible to resume excavations—with Prof. Dr. Halet Çambel and her younger colleagues and students from Istanbul University—at the prehistoric village site of Çayönü in southeastern Turkey. As well as seed money from the Oriental Institute itself and from some of its friends, we had a National Science Foundation research grant and Prof. Çambel had, for the first time, a significant grant from her own government.

Our joint interest in Çayönü and its archeological yield is part of a long-range research concern with recovering evidence of the beginnings of the village-farming community way of life in southwestern Asia. The 1978 season was our fifth joint field campaign at Çayönü with Istanbul University. We ourselves had had, however, earlier field seasons along the Zagros mountain flanks: one in Iran and three in Iraq, beginning in 1947. All of this research has been focused on the same culture-historical problem—how did an effective agricultural economy come into being, and what were its social and cultural consequences for the peoples who achieved it some nine or ten thousand years ago? We have learned a great deal in these nine field seasons and other colleagues have added much more information over the last two decades but, so far, we're sure that only the surface has been scratched.

What we propose to do in this note is to concentrate briefly on only one aspect of the archeological yield from Çayönü. With respect to what we know of other sites of the same general early time range and level of cultural development in southwestern Asia, the Çayönü people seem to have given remarkable effort and aesthetic attention to architecture. Finds from other sites of comparable time and cultural level in the Near East tend to

suggest excellence in the production of one or another particular category of usually smaller artifacts. High competence in the making of clay figurines or of decorative stone objects is an example of this and, of course, there may well have been whole categories of excellence such as in woven materials or in wood or leather objects which are no longer preserved for archeologists to find. At Çayönü, however, most of these early food-producers' creative efforts—in what we have recovered—seem to have gone into their architecture.

It was thus particularly lucky for our 1978 joint effort

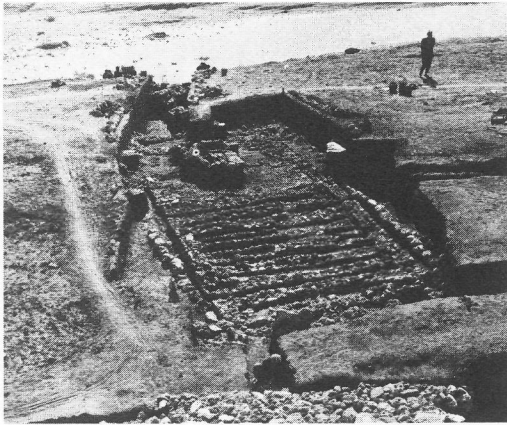


Stone foundations for a cell-type plan.

that Prof. Çambel had inveigled the promise of a visit to Çayönü by her old friend Prof. Dr. Wolf Schirmer, director of the Institute for Architectural History at Karlsruhe University in Germany. Prof. Schirmer did come, bringing with him two of his assistants. We feel sure they expected to see traces of architectural activity much more primitive than what we could proudly show them at Çayönü already at the beginning of the season. It now seems likely that we may anticipate a useful collaboration with the Karlsruhe architectural institute in the future.

In brief, we may now have—in at least partial sequential order—as many as seven reasonably distinct types of architectural plans, although at least two of these have not yet been cleared as fully discrete units. We illustrate here, first, two of the three plan types already exposed

in earlier seasons and which show the clearest examples of what were undoubtedly domestic structures. The later (or younger) of these two plan types is that which we call the cell-type plan. What we find of it is the stone foundations for a set of very small cell-like rooms or bins. We believe these cell-like units to have been little more than crawl spaces and that the living floor proper would have been supported on wooden beams above the stone foundations. Here are also clear instances of the use of mud-brick for the upper walls which rose above the stone foundations.



Stone foundations for a grill-type plan, looking south, with the grill-like portion in the foreground. In the background is the stream which flows by Çayönü.

The second reasonably understandable remnants of plans of undoubtedly domestic structures are of what we call the grill-type plan. An example of a grill-type foundation was already encountered in our first field season: we know now, however, that the grill-type plan was earlier than the cell-type plan. The overall grill-type structure appears to have been larger than the cell-type was, and again we believe that the living floors were supported on wooden members resting on the stone joist-like grill lines of the northern part of these foundations. Also, again, this would give air spaces below the main living floor. The southern end of the grill-type structures appears to have been a single large pebble-floored room or open court.

There is even one instance of the stone lines of rather thin foundations for walls of a cell-type plan superim-

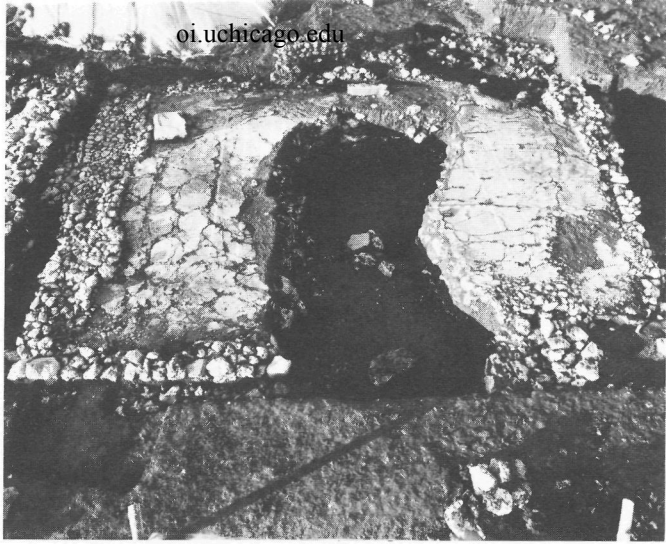
posed exactly above the northern grill portion of a grill-type plan.

Next we would like to note two examples of the foundations and floors of a plan type which we feel bound to assume must represent the remains of something more than a simple domestic structure. We call these remains the broad-pavement type plan: it appears that the original structure consisted simply of one large room with a specially constructed floor. We have even speculated that part of the building may have been roofless, with a



The remains of the flagstone floor and some walls of a broad-pavement type plan. At some subsequent time, a high level of the stream in flood washed away the front portion of the building.

central opening to the sky. While in each of the two cases of this plan type that we have exposed so far there was accidental or purposeful destruction as—or soon after—the buildings went out of use, the area and proportion of the prepared floors seem to have been about the same. The first example, with a carefully laid flagstone floor, was originally encountered during our 1964 field season. During our last (1978) field season, however, we finally established to our almost complete satisfaction that this flagstone-floored example had been built at a very early moment of the site's occupation. The second example, with a fine salmon-colored terrazzo floor, appeared during our 1970 field season. It clearly overbedded a foundation of the grill-type plan and was



The remaining wall foundations and terrazzo floor of a second broad-pavement type plan. There is good evidence that the hole in the center was made during or very soon after the prehistoric occupation of Çayönü site.

thus of considerably later date than the flagstone-floored example. This naturally suggests that the purpose this building type served was a persisting one. Both examples have features such as pilasters, limestone slab columns, and partial orthostatic base-boards, and—in the case of the terrazzo-floored example—a broad stone slab with a human face sculptured on one edge. We have no evidence at present to allow us to guess at the probable original function of this plan type—whether sacred or secular—but we can hardly bring ourselves to believe that the purpose was simply a domestic one.

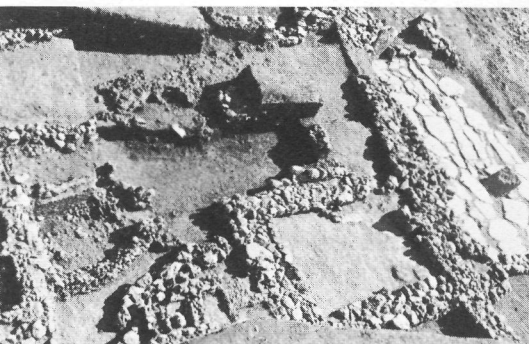
The architectural surprise of the 1978 field season was the appearance of two (still incompletely exposed) instances of the remains of round or ovoid structures. The smaller of these was of mud plastered over a wooden framework of saplings—a type of construction called wattle-and-daub. The larger example consisted only of the foundation stones for an ovoid structure of approximately four meters in diameter. It was over-bedded, after it went out of use, by the foundations of a grill-type plan, thus giving it a relatively early date, and the wattle-and-daub example was at least equally deep nearby. Remarkably, however, these hut-like remains were evidently not so early as the flagstone-floored broad-pavement plan building.

We say these round or ovoid plans were a surprise to us because until now the Çayönü plan types have each been (for their time range) quite formal rectilinear affairs. Round structures of simple small size, and indeed

the wattle-and-daub type of construction itself, suggest a linkage back into still earlier (and pre-agricultural) times when simple huts were the rule if caves were not easily available.

It is especially fascinating to speculate about the broader meanings of this evident link the Çayönü people must still have had with their not too recent past. This is particularly so if we are right in our assessment that the flagstone-floored example of the broad-pavement plan—quite certainly a building of some special and non-domestic purpose—was even earlier than our round or ovoid plans. Does that non-domestic purpose, for which the broad-pavement buildings were built, suggest a rather quick evolution of some cultural pattern which had already existed back in the time when all buildings were simple huts? Or, on the other hand, with the appearance of an effective village-farming community way of life, does the broad-pavement plan type hint of some quite new cultural expression, either sacred or secular in nature, which called for a special edifice?

So much for a sample of our still undigested post-season speculations. We hope to return to Turkey and Çayönü in the coming autumn and look forward very much to the warm reunion we know we'll have again with Prof. Çambel and her younger colleagues and students.



Air view, showing portions of the two round or ovoid foundations. The wattle-and-daub example is in the upper center, just left of an unexcavated block of earth: the stone-founded example is in the left center, partially covered by later stone foundations.



A detailed view of a portion of the wattle-and-daub hut remains showing the burned out sapling holes in the mud daubing and stones used to strengthen the base of the wall.

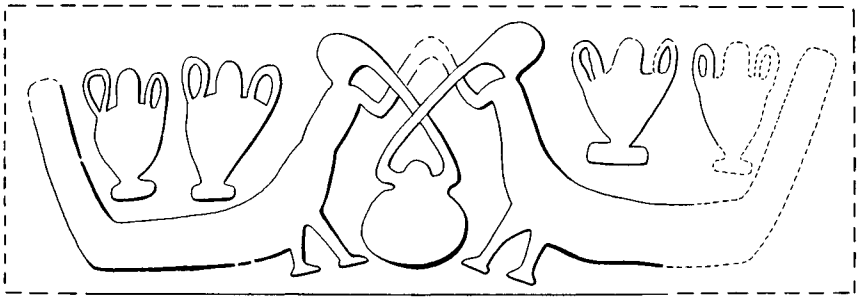
Chogha Mish and Chogha Bonut

*Helene J.
Kantor*

Events in Iran last autumn and winter caused the first interruption in the annual seasons of work in the Chogha Mish area since the expedition's house was built in 1969. There have been great difficulties in making those practical arrangements which are necessary even when the expedition is not in the field. However, throughout the whole time the guard of the expedition house has carried on his duties with great conscientiousness and initiative. Despite my absence, essential repairs to the expedition house have been done, and the equipment and archeological materials stored there kept in good order. The guard of the mounds has also remained faithfully on duty.

The interruption of field work has come at a time when the expedition was in the midst of momentous discoveries. Significant individual structures and levels remain unfinished as we had to leave them at the end of previous seasons. Instead of describing newly excavated finds, this year's report deals with the progress of work at home and summarizes some of the significant results of twelve seasons of excavations spread over the years 1961-1979.

Inevitably, the work in Chicago lacks the glamor of excavation and is slower in the doing than in the telling! The analysis of the finds and records of the 1977/78 season in preparation for a preliminary report has begun. Work has also continued on the finds and the drawings of earlier seasons. Some of these results are illustrated here. However, the main effort has been devoted to the report on the first five seasons of excavations at Chogha Mish, a joint publication of the late P. P. Delougaz and myself. In preparing the manuscript and illustrations for the printer innumerable details must be checked. In these time-consuming tasks, I am fortunate to have the energetic assistance of Mrs. Carolyn Livin-



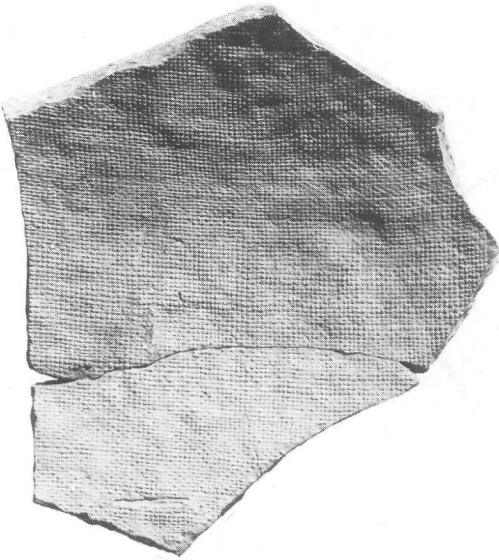
Chogha Mish: design of a Protoliterate seal impression showing two boats with prows in human form.

good, and of W. Raymond Johnson and Guillermo Algaze, graduate students in the Department of Near Eastern Languages and Civilizations.

The Protoliterate Period (ca. 3400 B.C.). The excavations at Chogha Mish were begun by P. P. Delougaz in 1961 in order to investigate the crucial period in which writing and many political and cultural institutions characteristic for the historical civilizations of Mesopotamia and Elam appeared. A sufficient number of strategically located areas have been excavated at Chogha Mish to prove that the Protoliterate settlement there consisted of an acropolis and a lower city with clusters of private houses divided by narrow lanes. Indirect proof for the existence of temples, some now completely eroded and some possibly still hidden in the high mound, are provided by a platform on the western terrace and by terracotta cones, normally used for temple decoration, scattered in the Protoliterate levels.

The identity between the pottery and other objects from Chogha Mish and those from Mesopotamian sites is important as an indication that one cultural continuum covered both southern Mesopotamia and the Susiana plain. The pottery proves also that Chogha Mish was occupied only during the earlier part of the Protoliterate period. In contrast, the site of Susa, located west of Chogha Mish more toward the center of the Susiana plain, continued to flourish in the later Protoliterate period. We cannot reconstruct specific political events, but can recognize that Susa was rising to the preeminent position which it held throughout the historical periods.

A few examples will illustrate the importance of the information provided by the small finds from Chogha Mish. In 1963, after P. P. Delougaz used X-rays to determine that clay balls covered with seal impressions contained variously shaped pellets, we concluded that such objects were economic documents consisting of tokens protected and authenticated by their round, sealed "envelope." The many cylinder seal impressions from

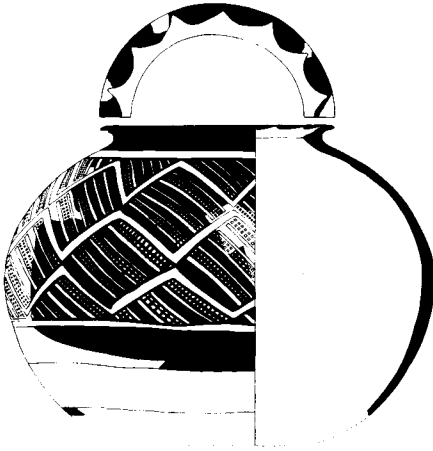


Chogha Mish: sherd of a Middle Susiana 3 jar with imprint of cloth on inner surface.

Chogha Mish have made major contributions to the history of Mesopotamian art. For example, an anti-thetical design shows boats with prows in human form. These figures drink with tubes from the jar placed between them; other jars appear above the hulls of the boats. This imaginative composition provides the earliest known representation of figures drinking through "straws," a motif prominent in the Early Dynastic period. Even more significant, we have here the prototype of the divine boat of the sun god known from the Akkadian period. This is only one of a number of Chogha Mish designs showing the amazing vitality with which the Protoliterate craftsmen invented many of the outstanding and dominant motifs of Mesopotamian art.

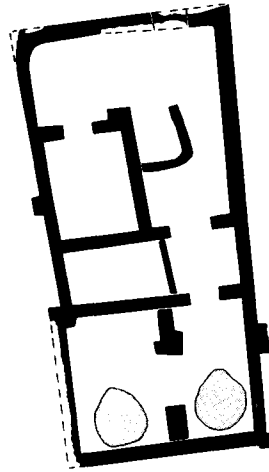
The Middle Susiana Period (Fifth Millennium B.C.). One

of the most important discoveries at Chogha Mish was the size of the settlement during the Middle Susiana period. The entire site of some forty-five acres was occupied throughout the period. Such a concentration of population implies the existence of a society and economy far more advanced than had previously been envisioned for this area in the fifth millennium B.C. Gradually the detailed evidence is being accumulated.



Chogha Mish: Middle Susiana 3 jar of fine ware with geometric decoration.

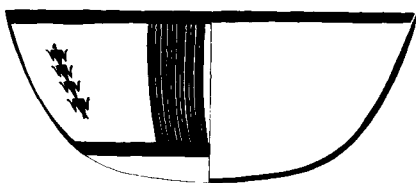
Chogha Bonut: plan of a house of the Middle Susiana 3 period.



Flint and ground stone tools, plant and faunal remains provide detailed information concerning modes of subsistence. Among the crafts, textiles are documented not only by spindle whorls, but by vividly sharp cloth imprints on the interior walls of some jars. The products of the potters range from utilitarian utensils to elaborately painted luxury vessels.

The architecture of the last phase of Middle Susiana is now known from both sites currently being excavated. At Chogha Bonut in 1977/78 we found a house with several rooms, probably entered from the north. An L-shaped room flanked a smaller one; behind was a room with a storage area delimited by a narrow partition wall. The back of the house was probably an open court

with some partitions; the two oval ovens appear to belong to a later stage of the house whose remains were destroyed when Bonut was bulldozed. The layout of the Bonut house is essentially the same as that of the eastern segment of the Burnt Building discovered at Chogha Mish in 1974/75. However, the Bonut building is a house with modest walls in sharp contrast to the grandeur of the Burnt Building. The latter's thick walls, ex-



Chogha Mish: Middle Susiana bowl of fine ware with design of tiered bird motif.



Chogha Mish: Early Susiana lid with tiered bird motif.



terior buttresses, and, above all, meticulously regular and symmetrical plan give it a monumental character. Furthermore, the small finds from the Burnt Building support the hypothesis that one of its rooms was a shrine.

The architecture and finds of the Burnt Building have added a new dimension to our knowledge of the final phase of the Middle Susiana period. By that time there existed a complex differentiated society already displaying some cultural elements which, in developed form, were to become diagnostic for the Protoliterate period. As work continues, the combined evidence from Chogha Mish and Bonut, i.e., the similarities and differences between a focal site and one of the villages in



the network of settlements which it dominated, will contribute much more to our understanding than the evidence from either site alone.

The Continuity of the Susiana Development. Chogha Mish is the only excavated site which was continuously occupied for at least two thousand years before the Protoliterate period. Thus, a long series of cultural periods



Chogha Mish: Clay figurines representing women in long dresses. Top, Archaic Razuk; bottom, Early Susiana.

has been established by means of remains stratified at one site. Several stages of the sequence occur at a small mound near Chogha Mish, Boneh Fazili, which we tested in 1973. In addition, Chogha Mish has added a previously unknown archaic period, the investigation of which has been a major objective of the expedition since 1963. By now we know that the Archaic Susiana period lasted for a long time and had three phases. The earliest one already possessed painted pottery of a disconcerting variety and complexity. Though lying on virgin soil, these sherds of Archaic Susiana clearly do not exemplify the beginnings of pottery. The question of whether antecedents for the Archaic culture should be sought outside or inside the Susiana plain remained open for some time.

In earlier seasons at Chogha Mish, while establishing the sequence of the prehistoric development, we concentrated on the distinctive characteristics of individual phases. As work progressed, however, the essential unity of the prehistoric Susiana culture over thousands of years became increasingly evident. At no point in the sequence is there a sharp cultural break. For example, various Early and Middle Susiana vessels, different though they are in other ways, share a predilection for designs of birds in tiers. Successive cultural phases are always linked by specific characters such as the pottery designs and the figurines which link the Archaic and Early Susiana periods. The demonstration of the coherence of the prehistoric Susiana culture during millennia of development is an important result of the Chogha Mish project.

The Formative Stages of the Susiana Culture. After the bulldozing of Bonut in 1977, a rescue dig there was made particularly imperative by the presence on the surface of Archaic sherds rather different from any at Chogha Mish. Since the two sites are only six kilometers apart, this discrepancy between their Archaic sherds created a problem. Unlike Chogha Mish, Chogha Bonut was unoccupied during much of the prehistoric era. In fact, wall stumps immediately below Middle Susiana 3 levels are associated with sherds identical with the simpler varieties of Archaic Susiana 1 pottery from Chogha Mish. Still deeper levels contain sherds of more primitive pottery, unknown at Chogha Mish, while the deepest layers tested contained only flint tools, stone vessel fragments, and rudimentary clay figurines. Chogha Mish had pushed back the Susiana sequence to the Archaic period. Now Bonut takes us still earlier to a Formative Susiana period. As the name we have now chosen indicates, the simple wares of the Formative period provide antecedents for the already sophisticated pottery of the Archaic Susiana 1 phase. One of the major questions raised by the excavations at Chogha Mish is now answered at Bonut. The Susiana plain was occupied well before the earliest settlement at Chogha Mish, perhaps already in the seventh millennium B.C., before the invention of pottery. The culture of the area was not brought in from the outside, but developed in Khuzestan.

From its inception the Chogha Mish project was envisioned as a regional one. The complexity of the focal site and practical limitations have necessitated a concentration of effort at Chogha Mish, but the brief sounding at Boneh Fazili in 1973 and the recent work at Bonut have indicated how much can be learned by the parallel investigation of a major site and the smaller settlements nearby. At Chogha Bonut the bulk of the evidence for the earliest Susiana periods still remains unexcavated. At Chogha Mish the western portions of the Burnt Building are still buried beneath the Protoliterate levels and the Archaic settlement is known only from a relatively small area on the eastern periphery of the terrace. These and many other areas promise to yield important evidence when the field work interrupted this year is resumed.



Chicago-Copenhagen Expedition to the Hamrin: Üç Tepe and Tell Rihan

McGuire
Gibson

During the past year the Oriental Institute Nippur Expedition was transformed into a joint expedition with the University of Copenhagen in order to carry out a special salvage project in an area that is about to be flooded.

The Hamrin Basin is a relatively small, lozenge-shaped alluvial plain between the Jebel Hamrin and the Jebel Jesper, two long ridges that are the westernmost ripples of the Zagros mountains. The Diyala River, beginning in the mountains across the border in Iran, meanders through the basin, is joined by the Narin, and cuts through the Jebel Hamrin. At this place, a dam is being constructed that will be completed in two years, but the water of the reservoir is to begin rising as early as the summer of 1979.

When the Iraqi Organization of Antiquities announced a special salvage project for the Hamrin basin, most archeologists working in Iraq were only slightly aware of the area. Very important work had been done during the 1930's by an expedition from the Oriental Institute in the Diyala Region just south of the new dam, but work had never been carried out in the basin itself. Its position astride the road from Baghdad to Kermanshah, the most important route for trade, warfare, and transit between Mesopotamia and the East, led us to expect that the basin would yield important information and finds from a number of periods. Besides the connections between Iraq and Iran, the relationship of Assyria and Babylonia should be made clearer by work in this area, which was on the frontier between those two ancient culture areas. For the Oriental Institute, in particular, the Hamrin basin had a special attraction since the material found there would be comparable and complementary to that from its old excavations in the Diyala.

Living quarters occupied by members of the expedition. Photographs and drawings by Peggy Bruce are available through the Friends of Nippur, proceeds to benefit the Nippur Expedition.

For the salvage project, the operational ground rules were different from those in normal excavations in Iraq. This time, the Iraqi government was supplying housing, labor, some transportation costs, and equipment. The central antiquities office in the area was administering a complex program that included as many as a dozen Iraqi expeditions at one time, plus a number of foreign expeditions. Besides our American-Danish group, there were British-Canadian, German, Italian, Japanese, Belgian, Austrian, French, and American (NYU-Metropolitan Museum) expeditions. With all these expeditions working alongside one another, we had the unusual advantage of studying in depth one small area. Opportunities for intensive work of this kind are rare,

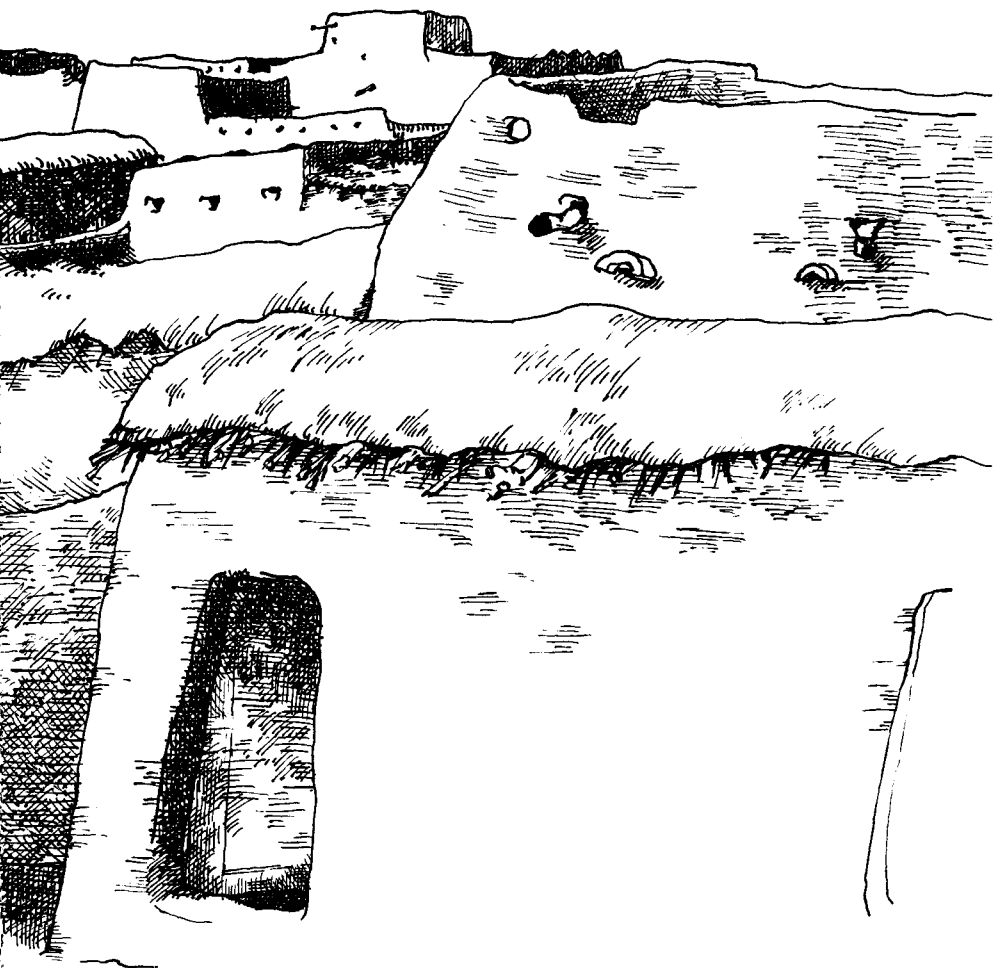


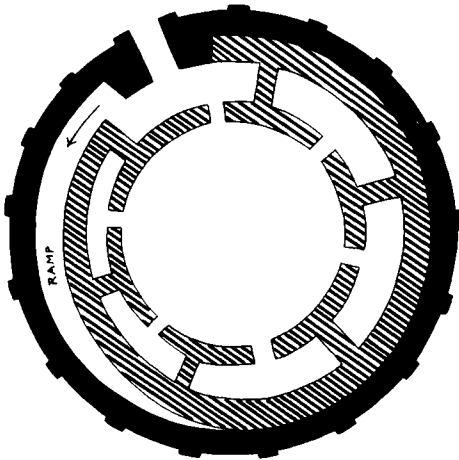
and we made efforts to open communications with other expeditions on official and unofficial levels.

Given the fact that the area would be under water in two years or so, it seemed important to work beyond our usual three-month season. Therefore we started work in early September and continued to dig until March 15.

Üç Tepe (Turkish for “three mounds”) is located in the northern end of the Hamrin basin. The three mounds lie in a north-south line at the junction of a rolling, gravel plateau on the east with a marsh that stretches to the Narin River. The largest of the three mounds, Tell Atiqeh, is no more than two hundred meters in diameter and five meters high. Some three hundred meters north is Tell Razuk, and about the same

The village of Üç Tepe, ink drawing by Peggy Bruce.





Plan of the Round Building at Tell Razuk

distance beyond is Tell Ahmed al-Mughir. All three of the mounds show evidence of fairly recent occupation. The village of Üç Tepe, where we lived, now lies about half a kilometer to the west, but until 1918 it was located on Tell Atiqeh. We found much evidence of this old village, not in architecture, but in pits, wells, and storage bins that had been cut down into the ancient levels. On Tell Razuk and Ahmed al-Mughir, the villagers used to bury their dead. All the tells were, therefore, badly disturbed and difficult to excavate. With these conditions, it was doubly unfortunate that for most of the season we did not have the services of the trained pickmen we were accustomed to in former years. All the work going on in the Hamrin, along with major projects at Babylon, Assur, and other sites, meant that there were not enough pickmen to go around. This season, the European and American staff did most of the detailed pickwork while training local men.

The three main mounds of the site are accompanied by at least six smaller, lower mounds. We did not excavate any of these mounds, but did make soundings in a small site west of the Narin River. Here, at Tell Rihan, having observed sherds of the Samarra period (ca. 5000 B.C.), we put in some test pits and found pottery, but no structures. Until we identified the pottery as of Samarra date, no one had recognized this period as the earliest occupation in the basin.

The earliest material at Üç Tepe proper is at Tell



Intact vaulting (center, background) on the Round Building.

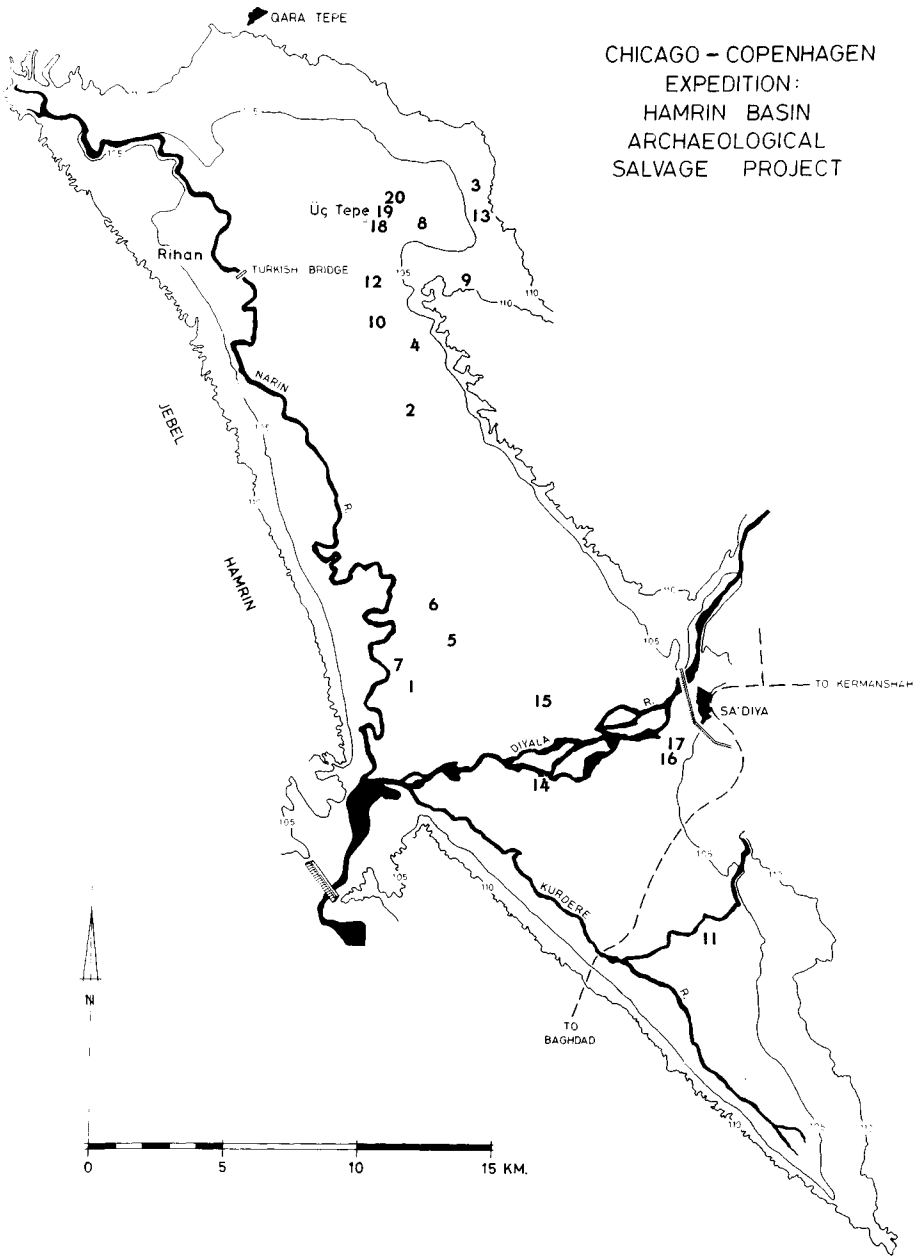
Razuk. Here, beneath medieval Islamic pits, we made the unique discovery of a mudbrick-vaulted roof on a Round Building. The Round Building, twenty-seven meters in diameter and four meters high, is only partially exposed as yet, but we have enough to understand the basic plan. There is one main doorway on the north leading into a room that gives access to a central open courtyard and to a mudbrick ramp that rises to the roof. There are at least five rooms positioned around the courtyard, where there are ovens and much ash. Inside the building we have thus far found weapons, tools, and pottery, including Scarlet Ware that is datable to the Early Dynastic I period (ca. 2900 B.C.).

The outer face of the Round Building has buttresses every five meters. The entire building is designed to lean in toward the top and the outer wall is carried over the ring of rooms in a barrel vault. We thus have the earliest known vaulting in the world.

Outside the Round Building there are houses that radiate out to a large mudbrick town wall.

There are several other fortress-like settlements of the Early Dynastic I period in the Hamrin, and in two of them the main structures are round. However, our building is larger and the roof is intact.

At Tell Atiqeh we exposed three levels of Akkadian period (ca. 2300 B.C.) buildings. Since there has been little work done on Akkadian sites (our excavations at Umm al-Hafriyat last year being one of the few exam-



1) al-Gubbeh, 2) Yelkhi, 3) Madhhur, 4) Kheit Quasim, 5) Sabbra, 6) Abbabra, 7) al-Imleihiyeh, 8) Khuzeifi, 9) al-Abga, 10) Kheit Genj, 11) Abbadeh, 12) Abu Shi'afeh, 13) Abu Gubab, 14) az-Zawiyeh, 15) Tulul Baradan, 16) as-Suleimeh, 17) Aq Tepe, 18) Tepe al-Atiqeh, 19) Razuk, 20) Ahmed al-Mughir.

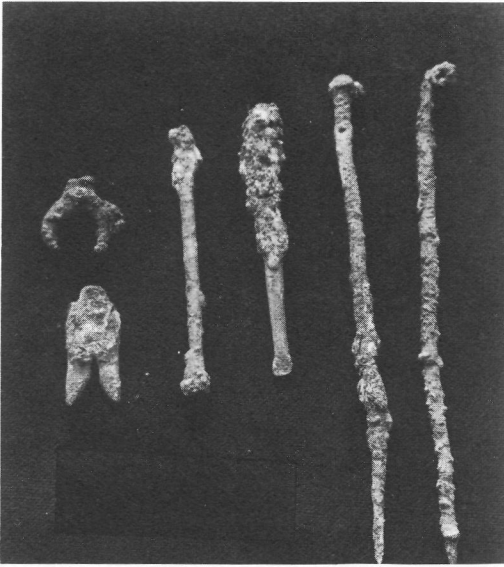
ples), this material has importance beyond the site itself. The lowest, best-preserved level has a large rectangular building with walls preserved up to three meters high. The finds in the building are domestic in character, with dozens of grindstones, flint sickle blades, storage jars and bins, ovens, and utilitarian pottery. Thus far, no tablets have been found, but the objects fix the level firmly in the Akkadian period. At the moment, the remains seem to be those of a large country manor. However, more digging might show that we have exposed only the domestic wing of a large administrative building.

Our work on Tell Ahmed al-Mughir was limited to some surface clearance of a very shallow Kassite occupation (ca. 1300 B.C.) and a deep pit five meters by five. The pit exposed two levels of large Isin-Larsa (ca. 2000 B.C.) buildings. Once again, the size of the building walls seemed to indicate public buildings rather than private houses, but further digging needs to be done to clarify the situation.

The Hamrin basin is proving to be intriguing for a number of reasons, almost none of them related to our initial expectations about the area. There are interesting connections between Iraq and Iran in prehistoric Ubaid (ca. 4000 B.C.) sites dug by other expeditions; and there are features of the Akkadian pottery that link the Hamrin with Assyria; but marked Babylonian influences that we expected, especially in the Early Dynastic III (ca. 2400 B.C.) and Kassite periods, are not in evidence. For an area on the main east-west route, the Hamrin has a surprisingly poor assemblage of trade items. Settlement seems never to have been very heavy, and many sites seem to be only fortresses or small administrative centers. The routes leading out of the basin are far more important than the settlements in it.

Having reached the end of our season without resolving a number of important questions, and having touched the Round Building at Tell Razuk, we must return for at least another season during the fall of 1979. We will again cooperate with the University of Copenhagen and will spend most of our time on Tell Razuk.

The staff this year was larger than normal, consisting of myself as director; Mogens Trolle Larsen, my chief



Bronze tools and ornaments from the Round Building (ED I).

collaborator from Copenhagen, as epigrapher; Richard Zettler, Ingolf Thuesen, James Armstrong, Perry Gnivecki, Jesper Eidem, Bodil Mortensen, and Mette Mortensen as site supervisors. John Sanders, the architect who has been a member of the staff since 1972, kept pace with the digging at four mounds with his usual good humor and keenness of perception. He also prepared in the field and presented in December a long, detailed, excellent paper on Assyrian and Babylonian building function for the International Conference on Assur, Babylon, and the Hamrin in Baghdad. Peggy Bruce served as photographer and artist. Robert Eidt was with us for a short time collecting soil samples for analysis. Jill Maher worked as general assistant and conservator. For the second year in a row, we had the pleasure of working with Hussayn Ali Hamza, the official representative of the Organization of Antiquities.

Several persons visited for some days, volunteering their time and energy. Among these were Marco Nielsen, Ramzi Wahba, Marnie Akins, and Audrey Tajeddin.

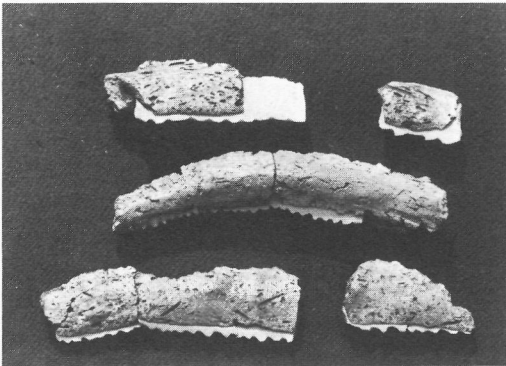
We owe a special debt of gratitude to Kay Erle, Flem-

ming Therkildsen, and other officials of the Monberg-Thorsen Construction Company. This Danish firm lent us surveying instruments, stoves, and a Toyota Land-cruiser. Moreover, we were allowed to use the company guest house in Baghdad, thus saving much in hotel bills.

The Kohler Company of Wisconsin must also be thanked for donating a generator which was custom-built for use in Iraq. We expect to go on appreciating this gift for a number of years. We thank the Everpure Corporation for their gift of a water filtration system.

We also received aid from British Airways in shipping samples from Baghdad, which saved us time, money, and bureaucratic tangles.

We also, of course, must acknowledge the continuing support of Friends of Nippur, who have maintained their interest despite our temporary shift to other sites. Under Chairman Howard Hallengren, membership has grown to the point that our mailings exceed one hundred twenty-five. Most memberships are held by couples or families, so probably hundreds of people now know about dogs that live on roofs, coats made of live ducks, and other important facts of life.



Sickle, flint with bitumen, originally set into a wood or bone handle, from the Akkadian Building at Atiqeh.

The Nubian Project

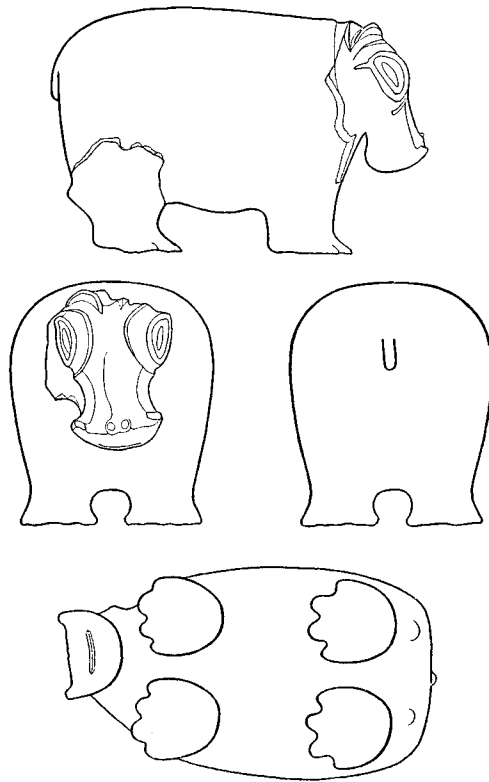
*Bruce
Williams*

In 1960, the Oriental Institute began fieldwork in Egypt as part of the international effort sponsored by UNESCO to record immovable monuments and to explore sites which were threatened by the rise of Lake Nasser behind the new Aswan High Dam. Although the Oriental Institute was only one of many institutions from North America, Europe, Africa, and Asia that raced against the waters to fulfill this commitment, it carried a large share of the responsibility for the rescue. As part of that responsibility, the Oriental Institute Nubian Expedition was created, under the general direction of the late Prof. Keith C. Seele, to excavate and record in concession areas scattered from just south of Aswan to Semna South in the Republic of the Sudan. Prof. Seele personally directed two seasons in the concession between Abu Simbel and the Sudan frontier, excavating materials, some of them of unique importance, that spread across more than three thousand years. A new series was required to publish this significant mass of material, named OINE after the expedition in which two volumes have so far appeared.

This year, a draft manuscript dealing with the extraordinary remains from the A-Group Royal cemetery at Qustul (Cemetery L, ca. 3400–3200 B.C.) was submitted for publication. Large numbers of drawings and photographs still remain to be completed, and somewhat more detailed revisions will be made in the discussion of artistic and epigraphic evidence. Also this year, a manuscript was begun for the remaining material of A-Group date, principally from Cemetery W. This volume will also include a few interesting groups which appear to date to the late Archaic Period or the Old Kingdom; in recent years, it has been widely believed that Lower Nubia had no native population at all during these periods.

Much activity centered on a joint publication by the

Oriental Institute and the Art Institute of Chicago of a catalogue for the exhibit called "Ancient Textiles from Nubia" at the Art Institute. These fabrics were discovered by the Oriental Institute Nubian Expedition in 1962/63 and 1963/64 in tombs at Ballana and Qustul, of Meroitic, X-Group, and Christian date (ca. 100–600 A.D.). The Nubian Project contributed information on the findspots for the catalogue section, and text describing the historical and cultural background and the circumstances of discovery. The exhibit constitutes a part of the Art Institute's centennial observances.



This year, among unsorted sherds from L 11 was found the large irregular piece that turned out to be the right hind foot of a terracotta hippopotamus. This foot was combined by project artist Joanna Steinkeller with the head from L 19, with the help of smaller parallels. The composite result shows how a complete figure, more than half a meter long, would have appeared. The two pieces are by far the oldest evidence of statuary this size in terracotta south of Aswan.

Carthage: the Punic Project

*Lawrence E.
Stager*

This was the last season of major excavations in our five-year campaign in the Commercial Port and in the Tophet (precinct of child sacrifice) of Carthage. Six Ph.D. candidates in Near Eastern archeology from the Oriental Institute formed the core of the field staff. Most of these graduate students began their field careers at Carthage and in a few short seasons have advanced from neophytes to superb stratigraphers.

Chicago crew. (Standing l. to r.) Joe Greene, Sam Wolff, Larry Stager, Doug Esse. (Seated l. to r.) Liz Bloch, Ray Johnson (artist-draftsman), John Currid.



*Commercial
Harbor*

Just ten meters behind the Punic quay wall was the ideal testing ground for the archeologist as detective. Elizabeth Bloch was assigned the case. In the conquest of Carthage in 146 B.C. a Roman demolition squad left few clues for reconstructing Punic buildings on the harbor front: a robber trench backfilled with mottled soils and a layer of destruction debris half a meter thick.

The robber trench, about two meters wide and twenty meters long, was set at right angles to the Punic quay wall. From ca. 300 B.C., when the Commercial Harbor was first built, this wall established the base line for quayside alignments. When the bottom of the robber trench was finally reached, we found the bases of five piers or columns, made of large ashlar blocks, spaced at meter-and-a-half intervals, and sunk into a water channel that had dried up by 350 B.C. (This channel served as a navigable waterway before the Commercial Harbor was built.) These bases had once held tall piers or columns; however, it is doubtful that such a colonnade was ever free-standing. The robber trench was a continuous one, which suggests that the piers were incorporated into a heavy wall known as *opus Africanum*, i.e., sturdy piers or monoliths with the spaces between filled with rubble, all of which was then plastered with a thick coat of stucco. This is typical Phoenician construction, used as early as the tenth century B.C. at Solomon's Megiddo.

Although few features remained intact, it was clear that the interior of the building had stood north of the *opus Africanum* wall: there the destruction debris was thickest and included various architectural fragments that were absent south of the wall.

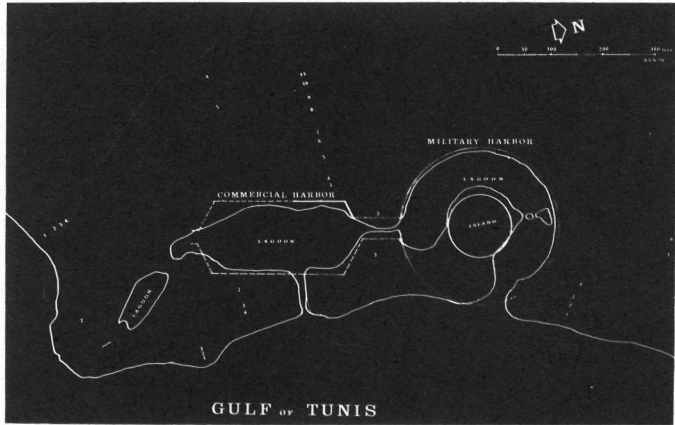
The most conspicuous of these were large chunks of heavy-duty cement pavement, more common in courtyards or workshops than in fine Punic villas. This flooring would have been ideal for port facilities.

A cache of copper nails bent at right angles ten cm. below their heads was found amid remnants of charred wood. The nails probably held together wooden doors that marked the entrance to the building. Red clay tiles lay in the destruction debris, having fallen from the roof. Tiles provide good evidence for reconstructing a gabled roof. Probably wooden crossbeams to support the frame for the gable ran from the top of each pier in

the *opus Africanum* wall across the width of the building. Parallel to the wall was a line of four postholes which once held the wooden frame for a rack or shelves.

From these clues we can piece together the first example of a Phoenician-Punic warehouse ever discovered. It was a building some twenty-one meters long with its entrance toward the harbor (its width is known

General plan of the Commercial and Military Harbors. Solid line on west side of Commercial Harbor indicates actual line of Punic quay wall; dashed line, projected shape of port.



Northwest corner of Commercial Harbor in late Punic period. Earlier north-south quay wall to the left of meter stick; later angle wall to right.





L-shaped sandstone cippus with seventh century B.C. urn of Tanit I type beneath. This urn contained only the charred bones of a young sheep.

for only four meters because of the limits of excavation).

The Roman historian Appian mentions buildings along the Commercial Harbor that were used for “storing all manner of ships’ tackle.” I would reconstruct an almost continuous series of gabled warehouses just west of the quay wall that held not only ships’ tackle but also items of import, export, and transshipment. Perhaps these Punic warehouses were the forerunners of the *horrea* later so common at Ostia and at other Roman emporia.

Among the more spectacular finds of the season was the northwest corner of the Punic Commercial Harbor. From known segments of the quay wall, we projected where we thought the intersection of these wall lines should be. From past experience it seemed likely that

the uppermost course of the quay wall would be buried beneath more than two meters of modern debris. There was neither manpower nor time enough to waste on such a project; yet we needed some empirical data for determining the shape of the “Rectangular” Harbor (Appian’s *tetragon*). I made an agonizing decision to bring in a mechanical excavator to remove the overburden and hopefully reveal the upper courses of the corner. In order to preserve the stratigraphy critical for dating the use of the quay wall, the machine had to come down on the side of the wall that faced the water. Within a few minutes the huge claws clanked against solid rock. We proceeded by hand to uncover what seemed to be a 120-degree joint in the stone. Later John Currid and his crew properly excavated the outer face of the wall down another four courses until they reached the bottom of the harbor at two and a half meters below sea level. The Punic Commercial Harbor more nearly resembled a hexagon than a rectangle. But there was some strange-looking mortar attached to the angle wall that we had not seen before on other parts of the Punic quay wall running north-south.

Henry Hurst, the Director of the British team excavating the Military (Circular) Harbor, recently concluded that the stone shipsheds for housing and repairing naval vessels might not have been built before the second century B.C., probably between the Second and Third Punic Wars. Such a date seems too late for the Commercial Harbor. Perhaps the angle wall was a later addition built in the second century to facilitate entrance to the newly established naval port to the north. Whatever its explanation, the final days of excavation behind the quay wall corner revealed the continuation to the north of the north-south wall. The angle wall was a later addition. The precise location of the northwest corner and the shape of the Commercial Harbor in its earliest phase still remain a mystery.

Tophet

After four seasons of excavations in the Tophet we have completed and drawn the first section ever made through such a precinct, recognized at least nine phases of urn burials ranging from 700 B.C. to 146 B.C. (earlier

excavators recorded three to four “strata”), and recovered more than four hundred urn burials. Douglas Esse, Joseph Greene, and Samuel Wolff deserve most of the credit for these achievements in the field. By recognizing the various ground levels from which the urn pits were dug, this team provided the essential stratigraphic information for unraveling the incredibly complicated sequences of burial phases in the Tophet. They personally excavated most of the urn burials. No local labor was used because of the delicacy of the operations. During seven months of field work in Area I, for example, Doug removed thirty cubic meters of soil and recorded about two hundred urns.

In the Tophet rites some Carthaginians were apparently allowed, or chose, to sacrifice animals, such as sheep or goats, as an acceptable substitute for children. During all periods some of the urns contained *only* the calcined remains of young sheep or goat. When sex could be determined, the lambs and kids were males. In one case an L-shaped sandstone cippus marked an urn burial containing only charred sheep bones.

The Table shows that in the seventh century B.C. the percentage of sheep-goat victims was much higher than in the fourth century. This figure may surprise other investigators who concluded that there was a steady in-

	Human	Animal	Human + Animal	No. of Urns
Group A				
7th Century				
B.C.	62.5% (50)	30% (24)	7.5% (6)	80
Group B				
4th Century				
B.C.	88% (44)	10% (5)	2% (1)	50

Comparison of human : animal remains from an early (Group A) and a late (Group B) sample of urns from the Carthage Precinct. Number of urns for each category is indicated in parentheses. Dr. Jeffrey Schwartz, staff osteologist and anthropologist from the University of Pittsburgh, analyzed the calcined bone remains contained in the urns.

crease in animal substitution and thus an attenuation of child sacrifice with the passage of time.

The *human only* category of Group A urns was also different from that of Group B. Human sacrifices of the seventh century were usually very young—premature or newborn infants. The fourth century victims included newborns but an even greater number of children one year and older.

Several Phoenician colonies in the Western Mediterranean have precincts of child sacrifice that date to the early periods of the founding settlement (e.g. Motya, Sicily; Tharros and Sulcis, Sardinia; and Carthage). Why such an institution, with potentially dire consequences for a fledgling colony, should have been established at such an early date has intrigued but puzzled me for years. Even under the most favorable conditions, it would not have been an easy task to keep a young colony going and growing if child sacrifice were widespread and frequent. Such religious ideology would have soon thwarted other attempts toward growth. Self-extinction was not the purpose or the consequence of child sacrifice at Carthage, where the practice continued for more than five centuries. I now believe that one of the primary reasons the rite did not result in such a predicament was due to the flexibility provided by the option of animal substitution.

Sacrificing an animal in place of a child was an acceptable custom from the earliest days of the West Phoenician colonies. A seventh-century B.C. inscription from Malta mentions the *mulk ʾimmōr* (Tophet sacrifice of a sheep or goat). At Carthage there is inscriptional evidence for this type of sacrifice in the third century. We have also found sheep depicted on some of the limestone stelae found in fourth-to-second-century contexts. The Latin transcription *molchomor* for the Phoenician technical term *mulk ʾimmōr* is attested in the Ngaous stelae (Algeria) in the second and third centuries A.D. There the meaning is made clear by the telling phrase *animo agnum pro vika(rio)*. Animal substitution provided the optional means by which an otherwise rigid sacrificial system could adapt to, in fact even reinforce, the changing demographic situations of the colony. In the early days of Carthage animal substitution was widely

accepted as an appropriate response to the sacrificial imperative. Later on, in the fourth and third centuries, when New Carthage was being developed along the shorelines of the Gulf of Tunis and the metropolitan area might have exceeded a quarter of a million people, animal substitution was not a common practice in Tophet rites. At that time children, not animals, were by far the most common sacrificial victims. In this way the elite could control their numbers in a rather systematic way while still receiving the blessings of the gods.

From the preliminary analysis of archeological data from the Tophet, I have difficulty accepting the evolutionary scheme proposed by many historians of religion who maintain that the "barbaric" practice of human sacrifice was gradually replaced by the more "civilized" practice of animal substitution. (The paradigm of Abraham substituting the "ram-in-the-thicket" for his son Isaac is usually cited.) For it is precisely in the fourth and third centuries B.C., when Carthage attained the heights of urbanity, that child sacrifice flourished as never before.

Quseir al-Qadim

*Janet H.
Johnson
and Donald S.
Whitcomb*

Although the Quseir Project did not have a field season this year, we were actively engaged in the study of the materials uncovered during the first season. As the result of a formal division with the Egyptian Organization of Antiquities, a very large percentage of the materials excavated was sent to the Oriental Institute. By law, no written materials may leave Egypt, so none of the Roman period ostraca or Islamic letters came to the Oriental Institute; but the materials sent include a very good study collection of both Roman and medieval Islamic pottery, glass, matting, and textiles as well as coins and other small objects. These materials were sorted and labelled by Barbara Strauss and Joan Barghusen, and the textiles were drawn by Jonathan Brookner and Michael Fitzpatrick (the other categories of objects had been drawn in the field), all of whom volunteered many hours each week all summer long for these laborious tasks.

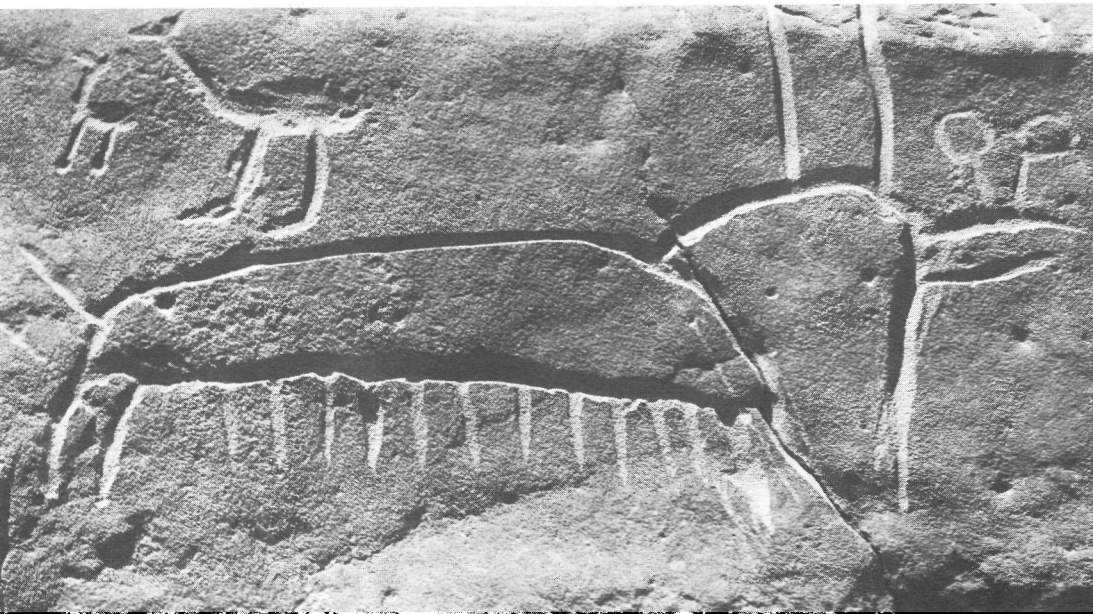
A large (350 pages) preliminary report, describing the excavations and regional survey and presenting a representative sample of each of the wide range of materials discovered, was prepared and taken to Cairo in December. This preliminary report is scheduled to be published this summer through the American Research Center in Egypt.

The co-directors spent a month in Cairo from mid-December to mid-January studying the materials from the first season which had been kept in Egypt. Most of the Roman and earlier materials are in the Egyptian Museum; the medieval objects are largely in the Islamic Museum. The rest, both Roman and Islamic, will become part of the collection of the Regional Museum for the Red Sea Region, in Ismailiya. Trips were made to Alexandria, to compare our Roman materials with those

of the great classical port there, currently being excavated by a Polish expedition, and to the site of Quseir al-Qadim.

While in Cairo, the co-directors also made the necessary arrangements with the Egyptian Organization of Antiquities for the second field season, which will take place during winter, 1980. During the second season we will continue our excavations on the harbor site and will extend the regional survey looking for other small port sites along the Red Sea and for evidence of human presence in the desert, especially from the prehistoric period. The excavations on the port site will concentrate on the major storage and distribution center of the Roman port and a major warehousing area of the medieval port. In addition, the possible "Indian quarter" of the Roman town will be investigated further. Study of the urban organization of the port, both the carefully laid-out Roman town and the more freely growing medieval one, will be directed toward gaining knowledge of the dynamics of the economic system, both within the town and between the town and the major city in the Nile Valley to which it was linked.

Rock drawing from the desert near Quseir; currently undatable, but similar to prehistoric drawings found in the Sahara.



Archeological-Environmental Survey of The Yarim-Dhamar Region, Yemen Arab Republic

*Raymond D.
Tindel*

In September 1978 the Oriental Institute initiated an archeological program in North Yemen. As project director, McGuire Gibson had secured a grant from the National Geographic Society for a one-month reconnaissance to evaluate the logistical problems, make personal contacts, and begin location of sites and collection of data in the Yarim-Dhamar area, midway between San'a and Ta'izz. The actual field work was carried out by me as field director, Stephen Lintner as environmental specialist, and Dennis Collins as archeologist and epigrapher.

Having previously acquired the necessary permissions, the expedition entered Yemen with air photographs, maps, and technical reports in hand. It was the existence and availability of this material that made the Yarim-Dhamar region most attractive for survey. For no other area of North Yemen are there research aids of comparable quality.

There are numerous areas of Yemen that would be interesting for archeological research. Ancient Sheba is the most obvious. Its capital, Marib, on the fringes of the Arabian Desert to the northeast, was excavated for a few weeks in 1952. Since then, a few scholars have done informal investigations in Yemen, but until our survey, sustained programmatic work had not been permitted. Now, with the encouragement of the Director of Antiquities, Qadi Ismail al Akwaa, not only our team, but also German, French, and British groups are beginning to work.

The country as a whole is virtually untouched archeologically, with hundreds of stone-built ruins standing meters high. Now, with development of the country, many of the sites are being destroyed for building material and it becomes a race against time to locate, record,

map, and photograph sites before they disappear. Most of the sites are in the rugged mountains that run up the country between the humid, desert Red Sea coast, which has some impressive ruins and irrigation works, and the Arabian Desert. The frankincense and myrrh trade ran through these mountains and at least two routes join in the Yarim-Dhamar region.

In antiquity, as today, the Yarim-Dhamar area was the most important agricultural region of Yemen. Although it is mountainous, there are high, wide valleys that yield good crops. At about the center of the region are the ruins of ancient Zafar, the capital of Himyar, which was the last great pre-Islamic kingdom in Yemen (ca. 250–600 A.D.). Sited on top of a rugged, easily defended mountain that rises from a lush, green valley floor, Zafar dominated the entire area, including the trade routes. Clearly, a survey of the region ought to start with Zafar.

By coincidence, the survey occurred at the same time that a small museum, which had been built last year on top of the mountain, was being set up. Selma al-Radi and Rosalind Wade, special consultants to the Department of Antiquities, went to the site with the field team

Inscription of Sharih-bizl Yasfur, son of Abukarib As'ad, dated 572 of the Himyarite era (= 457 A.D.).





Bas-relief fragment of nude male astride winged leopard, from the ruins of Zafar.

to choose pieces from storerooms and to organize the displays. The field team, settling at and around the museum for the period of the survey, began to help in extracting antiquities, including stone architectural fragments, from the stores and from the houses in the modern village on the site. Meanwhile, the team began collecting surface material and surveying the remains of buildings, cisterns, tombs, and other features. It soon became clear that for the purposes of an initial season, Zafar itself presented an opportunity for substantial results far exceeding the usual yield of archeological survey in unknown and rugged country. Given some problems with obtaining a vehicle and the consequent limit on mobility, it seemed best to make as much sense as possible out of the ruins at Zafar. Location and collection of other sites were limited to the valley around the capital, including dams or water control devices that the city depended upon.

The city of Zafar has been greatly damaged by Islamic and modern builders taking stones for construction. The mapping of the site was, therefore, difficult, but more than half of the site was mapped.

The artifacts in the museum and in storage, numbering about two thousand, include architectural details that show Hellenistic, Roman, Parthian, and Sassanian influence as well as local South Arabian features. There are bas reliefs, fragmentary statues, and ninety inscribed

or monogrammed pieces. Most of the inscriptions are unpublished. Almost all are in Epigraphic South Arabic, but two are in Ethiopic. The longest South Arabic inscription, dated to 457 A.D., mentions the king Shariḥ-bi'il Ya'fur, who is known to have repaired the famous dam at Marib.

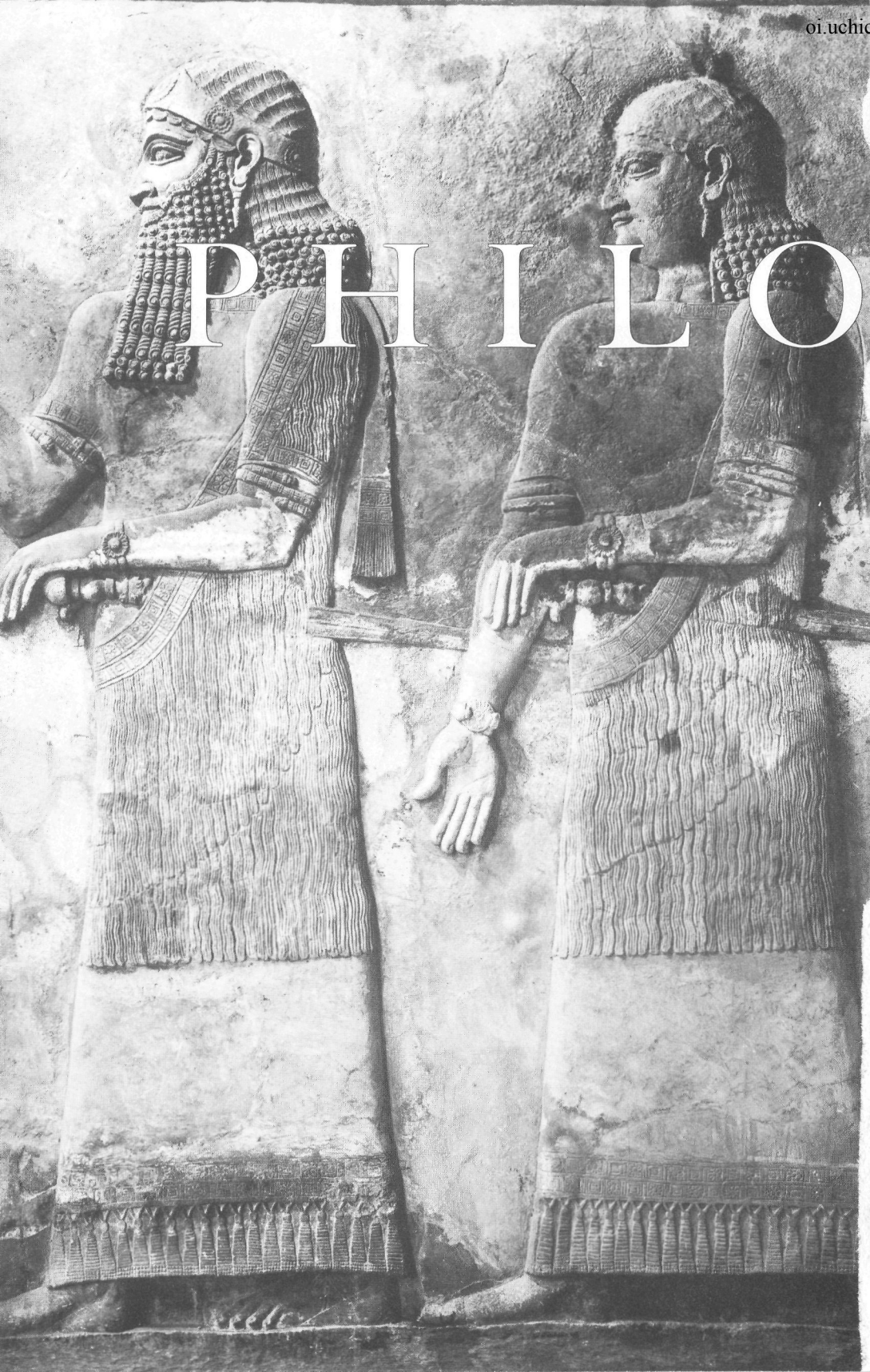
The Director of Antiquities has given us permission to publish the objects at Zafar and I wish to thank him for that as well as for his encouragement to carry out the survey. The sherds from the survey have been brought to Chicago for analysis and will be published in the near future.

I must also thank Selma al-Radi and Rosalind Wade for their help, and Tony Besse for the loan of a vehicle. The American embassy staff was extraordinarily generous with its aid. We were allowed to stay in the embassy guest house and received much assistance from David Ransom, acting head of mission. Marjorie Ransom was instrumental in gaining us permission to work and to purchase maps and other necessary material. James Callaghan, John Egan McAteer, and others helped in numerous ways. I should also mention the former ambassador, Thomas Scotes, whose enthusiasm for both Yemen and archeology gave the impetus for creating this project.

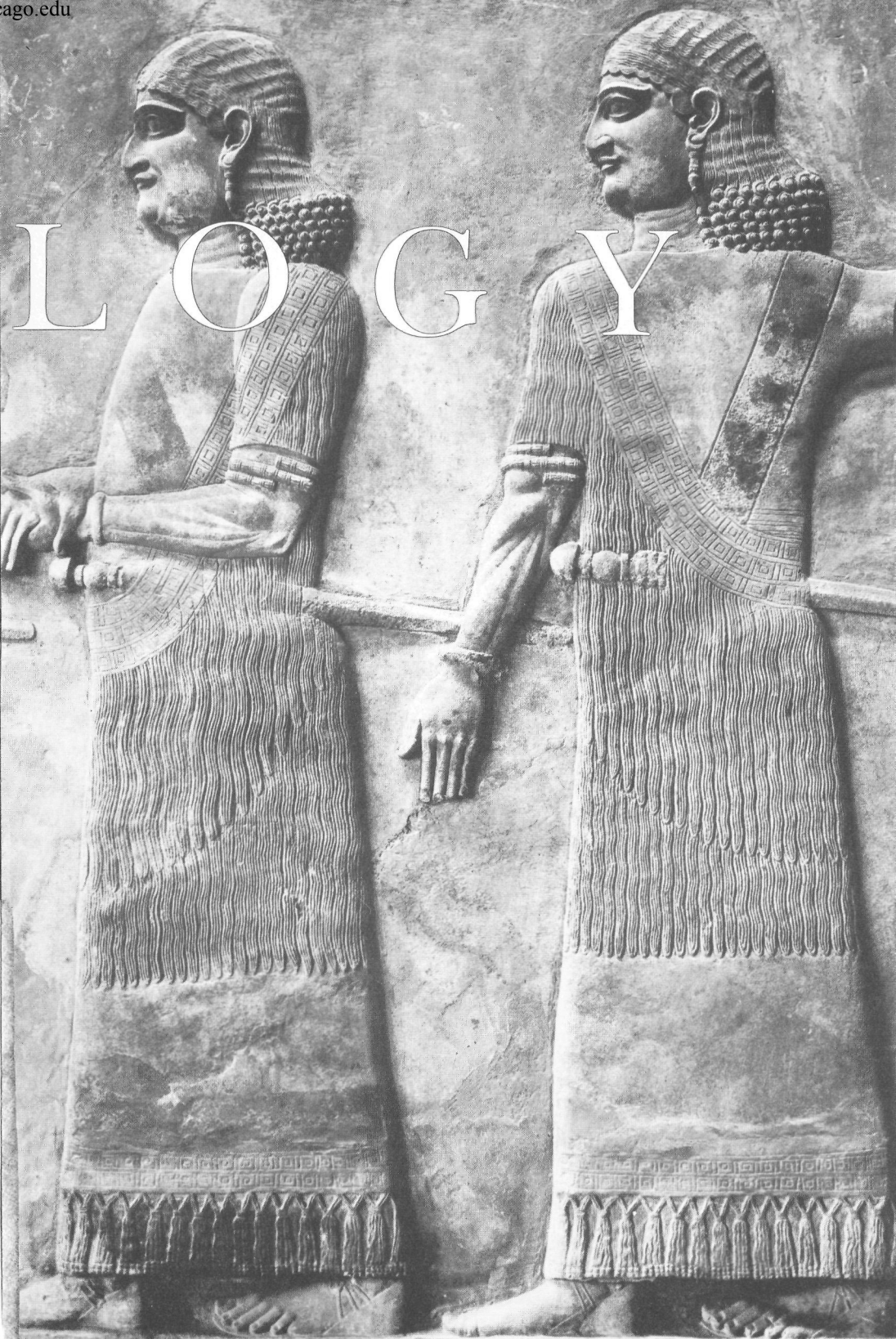
Efforts are now being made to obtain further funding for the survey, which hopes to resume on a larger scale in the winter or spring of 1980.



View of Zafar from the southeast, showing the ancient approach, still in use.



LOGY



Ancient Society and Economy

I. J. Gelb

The project to compile and publish a "Source Book for Social and Economic History of the Ancient Near East" has continued during the past year. The processes of gathering materials and preparing individual articles included in the Source Book are slowly nearing an end. The task ahead of us involves mainly the integration of groups of related texts into meaningful categories, such as land tenure or social stratification, the important social and economic evaluation of these categories, and, of course, the preparation of the final manuscript, which is to be published in two large volumes. When completed, the Source Book will serve both as an introductory manual for scholars who are acquainted with ancient languages but not with the special character of administrative, legal, and economic texts, and as a badly needed research tool for social scientists and historians who are not acquainted with ancient languages but are interested in the social and economic developments of the ancient Near East and the earliest historical stages of mankind.

Since the aims and methods of the Source Book were described in last year's Annual Report, I will take this opportunity to present a sampling of the results achieved during the past year, as illustrated by a "Taxation Text."

This document is recorded on a large eight-column tablet, which is presently in the British Museum. A hand copy of the tablet was published in *Cuneiform Texts from Babylonian Tablets, &c., in the British Museum*, Part XXXII, Plates 19–22. Despite its uniqueness and great importance, this document has never been treated in Assyriological literature.

The document dates to the second regnal year of Ibbi-Sin (2028–2004 B.C.), the last king of the Third

Dynasty of Ur. Its provenience is Puzriš-Dagan (modern Drehem), a locality in the vicinity of Nippur, which served as a collection and redistribution center for domestic and wild animals for the Ur III state.

The tablet concerns the delivery of a tax, called *gú ma-da*, “tax of the provinces,” which was levied on the military colonists settled in the outlying territories of the Ur III state. The payment of the tax was made in cattle and sheep, usually with the value divided equally between them in a fixed ratio of 1 ox to 10 sheep. The amount of the tax was determined by the military rank of the person in question, and, presumably, the size of the prebend holding allotted to him by the king.

Our tablet, transcribed in the accompanying chart, records the delivery of the tax by eleven towns located in the Diyala region. The animals brought from these cities are divided into two groups. The first group represents the remainder of the tax due from certain taxpayers for the previous year (i.e., the first year of Ibbi-Sin). The second group, which is much larger, constitutes the total tax paid by all the military colonists from these towns in Ibbi-Sin’s second year.

Within each section recording the tax from a particular town, the order of the payers is hierarchical. The breakdown of tax from the town of Išim-Šulgi will illustrate this clearly. The first taxpayer, called Šilluš-Dagan, who can be identified as the “governor-general” of that place, pays the highest tax, in the amount of 10 oxen and 100 sheep. He is followed by eleven “captains,” two of whom deliver 2 oxen and 20 sheep each, and nine, 1 ox and 10 sheep each. The last entry lists the tax of enlisted men or “soldiers-workers,” which is paid jointly, and which amounts to 17 oxen and 170 sheep. Following the listing of the tax, the text names the official who was responsible for its collecting and delivery. He is the same Šilluš-Dagan listed as the top taxpayer at the beginning of the section.

Sections recording the tax from other towns follow the same pattern. At the very end, the text lists two officials who were responsible for the transportation of the animals from the Diyala region to Puzriš-Dagan. They are Dingir-sukal, the royal messenger, and Šuruš-kin, the cattle fattener.

	Tax			Payers	Town	Person in Charge
	Oxen	Cows	Sheep	Goats		
[2] [1]				[Aḫun]li, son of Iribum Nur-Eštar, "captain"	Abibana	Aḫuni, son of Iribum
1				Nabi-Sin, "captain"	Kakkulatūm	
1				Aguali, "captain"	Išim-Šulgi	Šilluš-Dagan
1	2			Barra Šalim-aḫum, "captains"	Tutub	Lu-Nanna of Maškan-abi
1 1				Šu-Mama Damqum, "captains"	Kiškatti	Šilluš-Šulgi
(8)	(2)			"tax for the year (when) Ibbi-Sin (became) king"		
10 1 [2] 1 1 1 1 1 1 1 1 2 17		100 10 [20] 10 10 10 10 10 10 10 10 20 135		Šilluš-Dagan Ili-tappa-e [. . .] Puzur-Abiḫ Sulgi-ili Ili-šilli Nur-Adad Aguali Zariq Za'alum Ili-Tappa-e Igiḫalum, "captains" "soldiers-workers"	Išim-Šulgi	Šilluš-Dagan
2 1 1 1 1 4		20 10 10 10 10 37		Lu-Nanna of Z[imudar] Dayyan-ili Puzur-Haya Ikun-miṣar, "captains" 20 "officers of 60 (men)" "soldiers-workers"	Šami	Lu-Nanna of Zimudar
2 3		20 25		Lu-Ninšubur, "captain" "soldiers-workers"	Tumbal	
2 1 [4]		20 10 35		Aḫuni, son of Iribum [Nur-Eštar, "captain"] "soldiers-workers"	Abi[bana]	Aḫuni, son of Iribum
1 1		10 10		Nabi-Sin, "captain" "soldiers-workers"	Puḫzikar	

3		25	5	"soldiers-workers"	Kakkulatam	
2 1		13 10	7	Bur-Mama, "captain" "soldiers-workers"	Maškan-ušuri	Kurbilak
2 1 1 1 1 4		20 10 10 10 10 34	6	Humzum Zaalam AN-[. . .] Arši-a[h], "captains" 20 "officers of 60 (men)" "soldiers-workers"	Putšadar	Humzum
2 1 1 8		20 10 10 61	19	Šilluš-Šulgi Šu-Mama Damqum, "captains" "soldiers-workers"	Kiškatti	Šilluš-Šulgi
2 1 1 1 6		20 10 10 10 47	13	Lu-Nanna, "on account of (the town of) Tutub" Šalim-Aḥum Barra Laqip, "captains" "soldiers-workers"	Tutub	Lu-Nanna of Maškan-abi
8		65	15	"soldiers-workers"	Maškan-abi	
(119)	(2)	(997)	(113)			
121		1110		"tax of the provinces"		
"Dingir-sukal, the royal messenger, and Šuruš-kin, the cattle fattener (were) the conveyors"						

This document, when studied together with similar records, should prove of great value for reconstructing the system of military settlements in the outlying provinces of the Ur III state, as well as for our knowledge of the ancient geography of those areas and of the political history of the Ur III period in general.

As in the past, the project has been supported by grants from the National Endowment for the Humanities and the National Science Foundation. As the terms of the previous grants came to a close by the spring of 1979, an additional grant was obtained from the National Endowment for the Humanities, which may carry us over to the end of the winter 1980 pro-

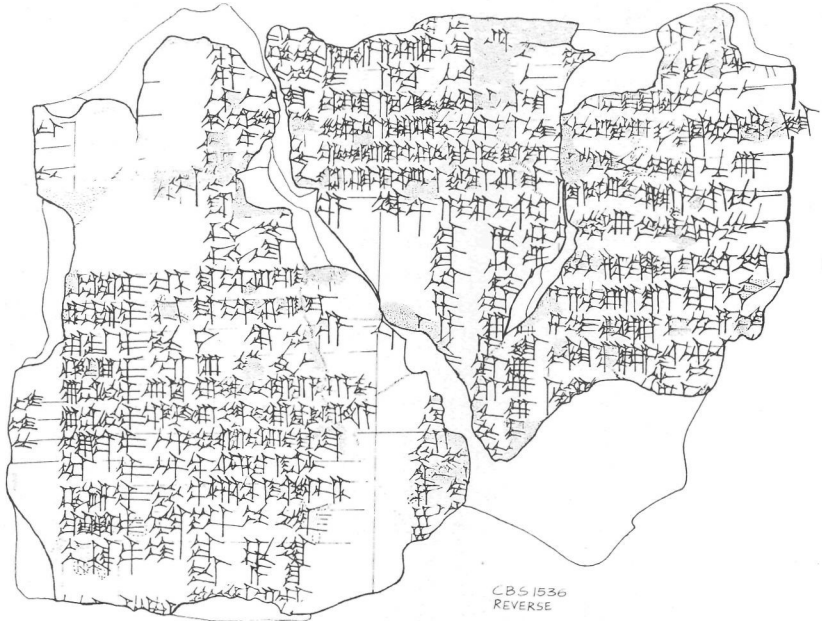
vided we are able to secure a matching grant up to \$20,000 at least three months before the expiration of the deadline. We need help.

The work on the Source Book is carried out with full-time assistance of Piotr Steinkeller, research associate, and part-time assistance of Lawrence Smith and Howard Farber, both Ph.D. candidates, and Elizabeth Bailey, a graduate student in the Department of Near Eastern Languages and Civilizations.

Materials for the Sumerian Lexicon

Miguel Civil The ancient Sumerian dictionaries, which find their modern publication in the series MSL, are not dissimilar from modern bilingual dictionaries: they include a guide to pronunciation and a translation into a familiar language, Akkadian, and in some cases into other languages as well, including Hittite, Hurrian, and Ugaritic.

Volume XIV (*Ea A = nâqu*, *Aa A = nâqu* with their Forerunners and Related Texts) was finally published in late spring. The printing of Volume XVI (*Alan = nab-nîtu*), prepared mostly by Irving L. Finkel (who this fall will leave the project to become Assistant Keeper of Western Asiatic Antiquities in the British Museum), will hopefully be under way when this report appears. The basic manuscript of Volume XV is finished. It was a much easier task than the preparation of Volume XIV because of the nature and more limited extent of the materials, and also because the preliminary edition by Benno Landsberger of the lexical series *Diri = watru* to be published in it was much more complete than his preparatory work on the Ea materials. With new collaborators joining the project this fall, among them Douglas Kennedy, from the French Centre National de la Recherche Scientifique, who is in charge of the publication of the valuable lexical texts from Ugarit, I can



Photograph and copy, by Irving L. Finkel, of a tablet from the collection of the University Museum, University of Pennsylvania, bearing a portion of the lexical series Diri=watru; to be published in MSL XV.



confidently predict that the manuscripts for the rest of MSL up to the eighteenth and last volume will be finished by summer 1980.

I thus hope that by this time next year I will be writing the last report on the progress of this collection of lexical materials started in 1937 by Landsberger, interrupted by World War II, and continued in the Oriental Institute since 1951.

Not all will be finished, however. A Supplementary Series, whose first fascicle—described in last year's Annual Report—will appear before the end of 1979, will complete the published volumes and add any new lexical materials that may be discovered.

MSL is published by the Pontifical Biblical Institute in Rome, with a small contribution toward printing expenses from UNESCO. The financing of the long work of collecting the original materials and the preparation and editing of the volumes is provided by the Oriental Institute.

The Assyrian Dictionary Project

Erica Reimer

The sixtieth anniversary of the Oriental Institute is also the twenty-fifth anniversary of the start of publication of the Assyrian Dictionary after more than thirty years of data collecting.

Volume H, begun in 1954, went to press in 1955, and appeared in 1956. The coming year 1979/80 will see the sending off to press of Volume S. In the intervening twenty-five years, twelve volumes have appeared, and eleven volumes have been reprinted. The first printing has risen from an initial 750 to 1500 copies, reflecting the growing readership of the Dictionary.

While the CAD has suffered a retrenchment in recent years due to retirements and resignations, we are now beginning to augment our staff to the point needed for successful continuation and completion of our work. In the last three years, the number and composition of the staff have been enhanced by a succession of distinguished visitors. This was made possible by a grant from the National Endowment for the Humanities, which will be in effect through June 30, 1980, and which has enabled us to invite the following collaborators for part or all of this year: Professors Matthew Stolper of the University of Michigan and Hans Hirsch of the University of Vienna, who made substantial progress on Volume R; Professor Richard I. Caplice of the Pontifical Biblical Institute in Rome, here for eight months to finish S; Professor Klaas R. Veenhof of the Vrije Universiteit of Amsterdam, here for six months working on Š (the letter that will have the greatest number of entries); and Dr. Joan Goodnick Westenholz from Copenhagen, who has been with us for the year.

Maureen Gallery as Visiting Assistant Professor and Irving Finkel as Research Associate have continued their work not only on the CAD but also on its concomitant

project, Materials for the Sumerian Lexicon, respectively.

The processing of N galleys is complete. We are already receiving page proof, so we may expect the appearance of the finished, possibly two-volume set some time during 1980. Q was sent to the printer in January 1979. Work on Volumes P and R is in progress. It is expected that one of these will be ready for press during the coming year.

With the recent delivery of the reprint of K, along with reprints of L and H, all volumes of the CAD are now in their second or even third printings. Reprints of A/1, B, G, and Z are in production. The reprintings have afforded the opportunity of assigning a Library of Congress Catalog card number and International Standard Book Numbers to the Dictionary. It now conforms to the standard practice for all books published in the United States; this facilitates processing by booksellers and by libraries' acquisition departments.

The Hittite Dictionary Project

*Harry A.
Hoffner, Jr.
& Hans G.
Güterbock*

The Hittite Dictionary continues to follow the schedule mapped out three years ago in its application for support to the National Endowment for the Humanities. 1978/79 was the third year of NEH support. As we promised the Endowment, we have completed manuscript for the first fascicle of what will eventually be volume three of the complete dictionary. This first fascicle will contain prefatory material (introduction, abbreviations) and articles on Hittite words beginning with the letter L.

Progress on the first fascicle was slower than what we anticipate for the future. In part this was caused by uncertainty regarding the amount of citations and discussion to be included. The CHD is not to be a thesaurus,

but not just a glossary, either. Its intermediate size naturally occasions questions in the minds of the editors about shortening the longer articles. Once we have produced more articles, and after we have had the initial reactions to the first published fascicle, it is hoped that we can avoid the delays brought upon us by such unresolved questions of procedure.

We are quite pleased with the results of our work on the L-words. There proved to be about a hundred sixty entries. Potential buyers of the dictionary may wish to know that this group of Hittite words contained nouns with the following English translations: (military) campaign, cap, corvée, dance, dawn, disgrace, duck (a bird), eyelash, foliage, incense, moment, name, oath, pond, prosperity, receipt, tongue, transhumance, tribe, trip, and window. Selected examples of verbs are: be agitated/worried, bend, conciliate, get well, go to war, fell (trees), fly, keep vigil, lick, loose, name, pour, set fire to, and swear. The longest articles will be those on the verbs "to loose" (*la-*) and "to be good, get well" (*lazziya-*), and the nouns "name" (*laman*) and "tongue" (*lala-*). Relevant passages of Hittite containing the words under study are cited in full and accompanied by idiomatic English translations.

Although the primary achievement of 1978/79 was the completion in final draft of all the articles on L-words, other goals were reached. The main lexical file has been brought even further toward its goal of full coverage of published texts. Almost five thousand new master file cards of transliterated Hittite text were produced in 1978/79. Most of these have been reproduced photographically, and we are in the process of filing them under the Hittite words contained on them. It is estimated that 1979/80 will see this aspect of our work brought to completion, after which time we will only need to keep pace with newly appearing volumes of Hittite texts.

To aid us in our evaluation of the paleography of individual Hittite tablets, which is a major factor in the dating of the copies, the editors made trips to Berlin, London, Paris, New Haven, Istanbul, Ankara, and Israel in order to seek out and photograph Hittite tablets. Our collection of photos is small, but growing.

News of our project continues to arouse the interest of our colleagues. Requests continue to come into the office for information from our files to aid colleagues in their research. In addition to individual research projects, at least two major dictionary projects, our own Institute's Assyrian Dictionary and the University of Pennsylvania's Sumerian Dictionary, have consulted and made use of material from our files. One new volume of Hittite texts from Istanbul will make extensive use of CHD information in the identification of the small fragments published therein.

We were visited in 1978/79 by Joseph Duffey, George Farr, and other officials of the National Endowment for the Humanities. The interest and support of the NEH continues to be strong. Some of you may even have watched William Buckley's interview of Chairman Duffey on his television show *Firing Line*, in which Duffey pointed to the Chicago Hittite Dictionary as a project in which the NEH takes particular pride.

For 1979/80 we tentatively set the following goals: (1) completion of final draft for most, if not all, M-words, (2) completion of first draft for the N- and some P-words, (3) completion of the lexical file coverage of the previously published cuneiform texts, (4) setting, printing, and distributing the first fascicle, containing the L-words.

The Demotic Dictionary Project

*Janet H.
Johnson*

The past year has been an exciting and productive one for the Demotic Dictionary Project. Demotic is the Egyptian script used from the middle of the seventh century B.C. to the fifth century of our era for economic and legal documents, private letters, literary and scientific texts, and even some religious and administrative texts. Although ultimately derived from hieroglyphs,

demotic is extremely cursive, which presents great difficulties in reading the texts. As a result of a grant from the National Endowment for the Humanities, we have increased our staff by having Mark Smith become a full-time staff member and adding three students who work part time: Michael Fitzpatrick, Richard Jasnow, and Robert Ritner.

This past summer we began the actual gathering of vocabulary and preparation of dictionary cards. Our current goal is a volume which will include all vocabulary which occurs in demotic texts published in the last twenty-five years and not attested in an interim glossary published in 1954. We decided to start gathering the vocabulary by working on the longer literary, religious, and scientific texts which have been published during this time span because they contain the bulk of new vocabulary which does not appear in the glossary. For each text, the first step is the preparation of running transliteration and translation, with commentary as needed, in which the text is broken down into minimally self-coherent units, usually sentences. From these annotated translations the students prepare the actual dictionary cards. For each word in each sentence in each text, a card is prepared giving the suggested transliteration and translation of the word and citing, in transliteration, the context for the word, the context usually consisting of the entire sentence in which the word appears. To the card is then added a facsimile of the word as written by the demotic scribe, usually a Xerox from the published photograph of the text. Any discussion of the word in secondary literature is also noted.

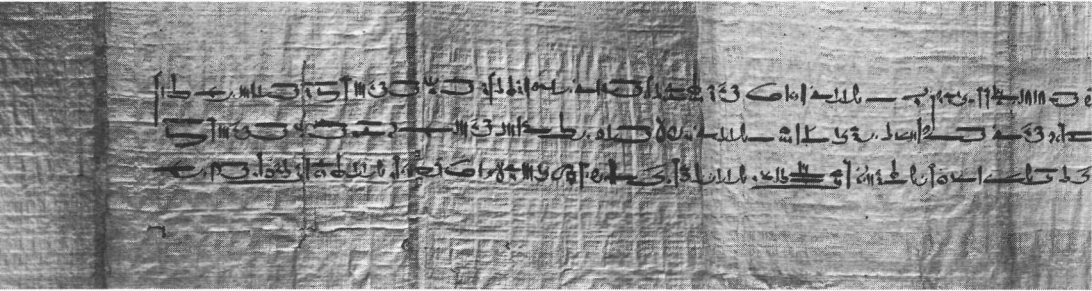
Following this procedure, we have so far collected the vocabulary from most of the long literary, religious, and scientific texts that were our initial target. These include a religious text containing a series of benedictions recited by a man for his deceased daughter; an astronomical text describing and explaining the representations of the sky goddess Nut in the cenotaph of Seti I at Abydos and the tomb of Ramesses IV in the Valley of the Kings; a "wisdom text" in which a man who has been imprisoned for failing to warn the king of an assassination attempt gives his son pragmatic advice on how to live his life; a hymn to the sun god Amon, hieroglyphic parallels

for which are known from late-period temples built at Philae, Karnak, and Khargeh Oasis; and a text describing the construction of an Egyptian temple and naming the various rooms which comprise it, e.g., the crypts, the sanctuary, the storehouses, and the dwelling place of the sacred animal. All of these texts carry forward centuries-old native Egyptian traditions; and many are late copies of earlier texts, e.g., the astronomical text which, dating from the Roman period, is fifteen hundred years younger than the New Kingdom originals with which it deals.

A marked foreign influence appears, however, in others of the texts with which we worked this year. One such text is an astronomical treatise in two sections, one describing aspects of the moon, the other giving dates of eclipses, all taken as omens and associated with predictions of good and evil fortune which will affect the nation. The section on eclipses begins with a list of Babylonian month names, indicating a Babylonian origin, and the events portended are to affect not only Egyptians, but Hebrews, Amorites, Assyrians, and Cretans. The composition appears to be Persian in date (sixth century B.C.), although the manuscript which has been preserved is a Roman copy. Two literary texts, one of which describes an Egyptian expedition to India via a country inhabited only by women, the other of which relates the story of two heroes contending for the armor of a fallen king, reflect the influence of Greek epic literature, while a medical text dealing with infections, fevers, and other ailments reflects some knowledge of contemporary Greek medicine. From all of these texts we have gleaned a rich harvest of new words; week by week, the amount of material in our files grows larger and larger.

The highlight of our year was the Demotic Dinner held May 23 in the Oriental Institute Museum. In conjunction with the dinner the museum staff organized a small exhibit of objects from the thousand-year span when demotic was in use and a small display of the dictionary staff at work. Everyone attending received a copy of one of the proverbs from the "wisdom text" described above and a copy of a demotic marriage contract from the period immediately preceding Alexander

the Great. We thank all those who attended and helped us make a good start on raising the money necessary for the matching portion of our grant from the National Endowment for the Humanities.



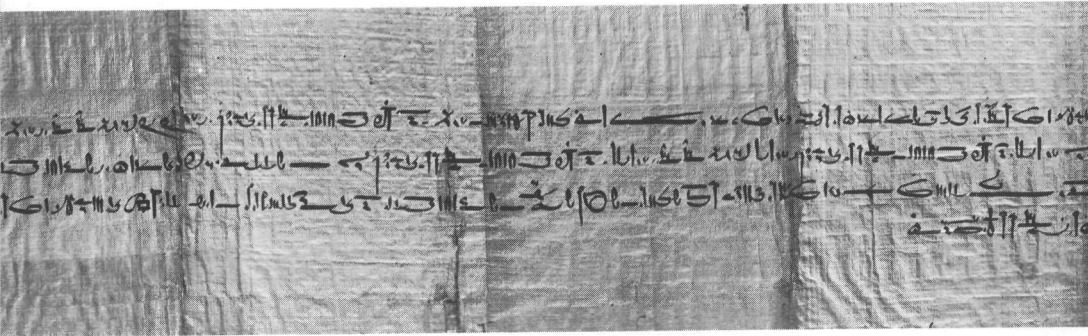
A Demotic marriage contract from the Institute's collections, dated December, 365 B.C. It reads from right to left, beginning on page 83.

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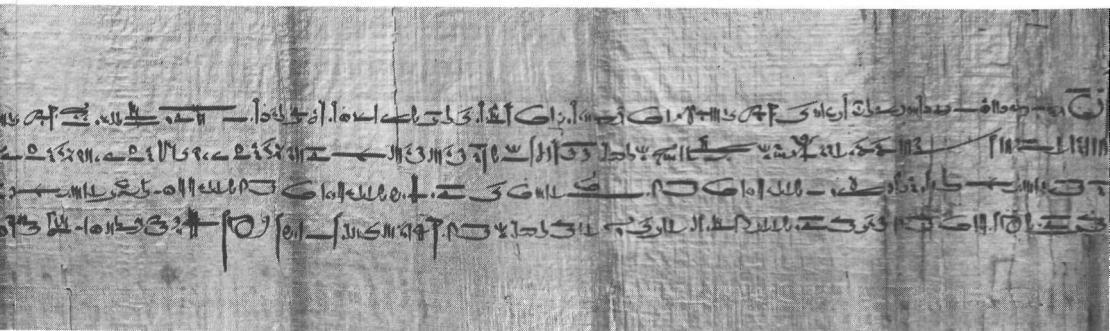
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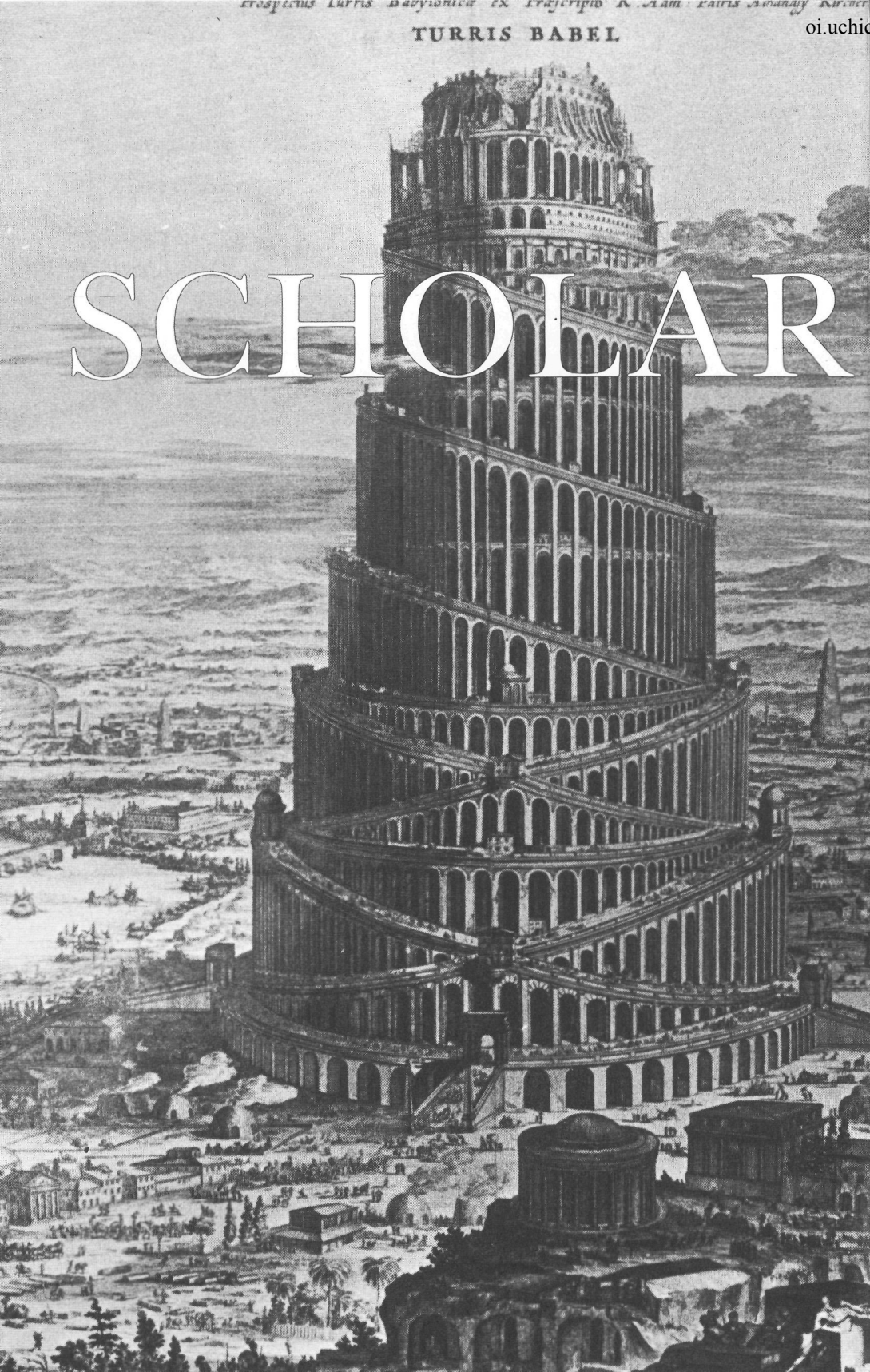
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 Mrs. Mary B. Naunton, Chicago
 Mrs. Mary C. Neal, Chicago
 Mr. & Mrs. Alfred K. Nelson,
 Chicago Heights
 Mr. Ray C. Nelson, Corpus
 Christi, Tex.
 Mr. & Mrs. Otto Nerad, River
 Forest
 Mr. & Mrs. Albert H. Newman,
 Chicago
 Ms. Alice O'Connor, Chicago
 Mr. Harry M. Oliver, Jr., Chicago
 Mr. Lewis P. Orans, Racine, Wis.
 Mrs. Franklin Orwin, Chicago
 Mr. G. W. Osborne, Chicago
 Mrs. Gilbert H. Osgood,
 Winnetka
 Mr. & Mrs. George Pagels,
 Chicago
 Mrs. Pauline E. Pantsios, Chicago
 Mr. Richard A. Parker,
 Providence, R.I.
 Mr. Robert C. Parker, Wheaton
 Mr. & Mrs. Demetri Parry,
 Chicago
 Paul J. Patchen, M.D., Chicago
 Mr. Arthur W. Perrins, Daytona
 Beach, Fla.
 Ms. Ann Putcamp, San Diego,
 Calif.
 Mr. Fazlur Rahman, Naperville
 Mr. Donnell Rallings, Chicago
 Mr. & Mrs. George A. Ranney,
 Libertyville
 Mr. Albert H. Raymond,
 Northfield
 Mr. & Mrs. Harold Rechter,
 Country Club Hills
 Mr. Henry Regnery, Three Oaks,
 Mich.
 Ms. Louise Lee Reid, Clarendon
 Hills
 Ms. Erica Reiner, Chicago
 Mr. Louis L. Retallack, Denver,
 Colo.
 Ms. E. M. Riedinger, Los
 Angeles, Calif.

- Mr. & Mrs. Robert K. Ritner,
Houston, Tex.
- Mr. Sanger P. Robinson, Chicago
- Mr. Arnold A. Rogow, New
York, N.Y.
- Mrs. Homer Rosenberg,
Highland Park
- Mrs. Samuel R. Rosenthal,
Highland Park
- Mrs. Barbara S. Rosi, Chicago
- Sylvester J. Ryan, M.D.,
Middlebury, Conn.
- Mrs. Alice Ryerson, Lake Forest
- Mr. Joseph Salvato, Chicago
- Dr. & Mrs. Gilbert Schaer, Lisle
- Dr. & Mrs. Lawrence J. Scheff,
Chicago
- Ms. Ethel M. Schenk, Chicago
- Mr. & Mrs. George G. Schloerb,
Chicago
- Mr. Kenneth Benjamin
Schlosser, Glendale, Calif.
- Mr. Arthur W. Schultz,
Barrington
- Mr. & Mrs. M. D. Schwartz, Los
Angeles, Calif.
- Mrs. Keith C. Seele, Batavia
- Mrs. Doris S. Shayne, Chicago
- Ms. Elizabeth Sherman, Chicago
- Mr. Jeffrey R. Short, Jr.,
Winnetka
- Mr. & Mrs. Louis Skidmore, Jr.,
Houston, Tex.
- Mr. & Mrs. Steven B. Smith,
Chicago
- Mr. John Spangler, Los Altos,
Calif.
- Mr. & Mrs. Peter Spiegel,
Chicago
- Mr. Herbert Spiegelberg, St.
Louis, Mo.
- Mrs. Marie S. Spiel, Lake Forest
- Mr. & Mrs. Jack C. Staehle,
Chicago
- Mr. & Mrs. Clement Studebaker,
Chicago
- Mr. Carroll H. Sudler, Lake
Forest
- Mrs. Gustavus F. Swift, Chicago
- Dr. & Mrs. Arnold L. Tanis,
Hollywood, Fla.
- Mrs. Elizabeth Thomas,
Princeton, N.J.
- Miss Jane Thomas, Los Angeles,
Calif.
- Mrs. Theodore D. Tieken,
Chicago
- Mrs. Frederic M. Tileston,
Chicago
- Mr. Honorio R. Torres, Chicago
- Mr. Gilbert D. Totten, Chicago
- Mrs. Susan Trevelyan-Syke,
Chicago
- Mrs. Chester D. Tripp, Chicago
- Mr. Henry S. Tropp, Gary, Ind.
- Mrs. James P. Tuthill, Chicago
- University Club of Chicago, New
York, N.Y.
- Mr. & Mrs. George Valko,
Chicago
- Mr. Bojan Hilton Vospalek,
Richfield, Conn.
- Mr. Robert P. Wallace, Sugar
Land, Tex.
- Mr. & Mrs. Witt O. Wallace,
Wilmette
- Mrs. Ned L. Warren, Richmond,
Ky.
- Mrs. Gilbert A. Webb, San
Francisco, Calif.
- Mr. & Mrs. Roderick S. Webster,
Winnetka
- Dr. Laurence C. Welch, Rolling
Hills, Calif.
- Mr. Edward F. Wente, Chicago
- Mr. Martin L. White, Downers
Grove
- Mr. Bruce B. Williams, Chicago
- Mr. Charles M. Wills, Jr.,
Honolulu, Hawaii
- Mr. D. W. Wilson, Cleveland
Heights, Ohio
- Mrs. Theodor A. Winkel,
Ludington, Mich.
- Miss Ruby K. Worner, Peoria
- Prof. Louis V. Žabkar, Waltham,
Mass.
- Mr. & Mrs. Frank Zapolis,
Evergreen Park
- Mrs. Virginia Zehring, Locust
Grove, Okla.
- Mr. & Mrs. Peter Zelisko,
Hinsdale
- Mr. Weldon P. Zundel, Golden,
Colo.
- Mrs. Walter Zurne, Chicago

TURRIS BABEL

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SCHOLAR



SHIP



the Tower of Babel, from Turris Babel, sive Archontologia . . . , by Athanasius Kircher, S.J. (Amsterdam, 1679), plate opposite p. 40. The original print is 48 cm. square, and is signed at the lower right by the artist, Lievin Cruyl (1640–1720) and the engraver, Coenraet Decker (1651–1709). The volume is from the collection of James Henry Breasted, which passed to the Oriental Institute upon his death and became the nucleus of the present Research Archives. (Data on the artists supplied by Scott O. Stapleton, Art Librarian, University of Chicago Libraries.)

Individual Research

ROBERT MCC. ADAMS's new volume of surface reconnaissance, *Heartland of Cities: Surveys of Ancient Settlement and Land Use on the Central Floodplain of the Euphrates*, now in press, includes reflections on the results and limitations of his techniques as well as presentation of his findings; four fifths of the area of Babylonia has now been sampled. He has lectured on the subject this year in a German Democratic Republic symposium. His appearance there grew out of his efforts last year in arranging scientific exchanges between Germany and the United States. Mr. Adams has also been involved in a Rockefeller Foundation study of American overseas research centers in humanities and social sciences; recommendations include the strengthening of ties not only with the host nations but also with the scientific communities here at home.

KLAUS BAER has been doing extensive research on Egyptian chronology of the third millennium B.C.; he has found the evidence of the widely used Turin papyrus to be unreliable and has been constructing a revised chronology on the basis of contemporary inscriptions. He believes that dates for the Old Kingdom, contrary to expectation, can probably be established within a range of approximately thirty years either way. During 1978/79 Mr. Baer has given lectures on various topics at Berkeley, Columbia (Archeology and Chronology Seminar), Philadelphia, San Francisco, Seattle, and Toronto.

LANNY BELL presented a lecture at the Luxor City Council in an archeological series sponsored jointly by the governor of Qena and the Director of Antiquities for Southern Upper Egypt. The title was "Discoveries at Dira Abu el-Naga and some Results of Research on the

Monuments of the Ramesside High Priests of Amun.” He was also able to collate three short inscriptions, one each at Dira Abu el-Naga, the Valley of the Kings, and Karnak, for inclusion in the publication of his dissertation and in a study of the Ramesside High Priests of Amun.

ROBERT D. BIGGS has continued to work on cuneiform texts of the third millennium B.C. and has published (together with J. N. Postgate) the texts found at Abū Ṣālābikh, Iraq, in 1975. He has lectured several times on the related texts discovered at Ebla in Syria by an Italian expedition. Mr. Biggs has continued his work on Babylonian medicine, writing an encyclopedia article on the subject, and has studied Ur III and Old Assyrian texts in connection with tablets from small Midwestern collections he plans to publish. As outgoing president of the Middle Western Branch of the American Oriental Society, he gave a paper on antiquarianism in Babylonia as the presidential address at the meeting in Madison, Wisconsin, February 1979.

JOHN A. BRINKMAN lectured at Berkeley this year and spoke at the dedication of the Siegfried H. Horn Archaeological Museum at Andrews University. In April 1979 he read a paper on the status of servile laborers in the Middle Babylonian period at the national meeting of the American Oriental Society. He has continued research on Kassite documents in the Royal Ontario Museum (Toronto), the Harvard Semitic Museum, and the University Museum (Philadelphia). Articles submitted for publication include a lengthy treatment of the political and cultural history of the Kassites for the *Reallexikon der Assyriologie*, a study of a rare Neo-Babylonian legal penalty, a discussion of a problem in Assyrian chronology, and an analysis of sex-age designations among the Babylonian working classes.

KARL BUTZER's research centered in part on the role of recurrent Nile failures or repeated, excessive floods in helping to explain the economic decline of Egypt during the 2nd, 6th–10th, 12th–13th, and 20th dynasties. A paper on “Water, Irrigation, and Society in Pharaonic

Egypt" was delivered at the American Anthropological Society annual meetings, and Mr. Butzer gave the Trumbull Lectures at Yale University on the themes "The Environmental Background to Egyptian History" and "Settlement, Irrigation, and Political Development in Predynastic and Pharaonic Egypt."

JOHN CARSWELL in September attended the Second Congress of Armenian Art and Archaeology in Erevan, Soviet Armenia, where he read a paper about a 14th-century Armenian carved door in Jerusalem. In November he read a paper on his recent researches in India and Ceylon, at the Middle East Studies Association meeting in Ann Arbor. In February and March he directed a two-month excavation of a village site in northern Sri Lanka (Ceylon), supported by grants from the British Academy and the National Geographic Society; he is now preparing the finds for publication. Among Mr. Carswell's articles this year are contributions to the *Encyclopedia of Islam*, the Kathleen Kenyon Memorial Volume, the Basil Gray Festschrift, and several journals, dealing with his researches on Islamic tiles, Islamic/Chinese trade connections, and Islamic architecture.

MIGUEL CIVIL published a study of a Sumerian folktale, "Enlil and Namzitarra," in *Archiv für Orientforschung*, and hopes to publish several new texts in 1979/80: "Letter of Sin-iddinam to Utu: A Copy from Kouyunjik," "Enlil and Ninlil: The Marriage of Sud," and a fascicle of Sumerian literary texts from Susa prepared in collaboration with the late Maurice Lambert. Mr. Civil will see through the printing of the *Catalogue of Sumerian Literary Texts (Handbuch der Keilschriftliteratur IV)* and prepare the final manuscript of a book on Sumerian writing and phonology which will include a critical index of Sumerian values of cuneiform signs in the most important sections of MSL.

MAUREEN L. GALLERY continued her studies of the *shāpir bitī* administrator and of an aspect of the *nadītu* woman's elevation to that status. Her article on the cultic obligations of women of *kezertu* status is to appear in *Orientalia*. Notes on an Old Babylonian text and a

lengthy study of the *shatammu* administrator are to be published in *Archiv für Orientforschung*. Ms. Gallery's review article of books on Sippar and Old Babylonian history came out in the *Journal of the American Oriental Society*, and another in the *Journal of Near Eastern Studies*.

I. J. GELB completed a number of articles: "Household and Family in Early Mesopotamia," "Comparative Method in the Study of the Society and Economy of the Ancient Near East," "Definitions and Discussions of Slavery and Serfdom," "Sumerian and Akkadian Words for 'String of Fruit,'" and "Principles of Writing Systems within the Frame of Visual Communication."

McGUIRE GIBSON spent most of the past year excavating at Üç Tepe in Iraq. In addition, he laid the groundwork for the beginning of a field survey in Yemen, and participated in archeological conferences in Baghdad, London, and Paris. He has written articles on his work at Nippur, Kish, and the Middle Euphrates area.

GENE GRAGG's current research concerns language contact and areal linguistics. He had vivid first-hand experience of the effects of language contact in the context of the Ethiopian language area, and is continuing to work in this field, focusing on the effects of contact between Amharic (Semitic) and Oromo (Cushitic). By way of return to the ancient Near East, he has become interested in the question of the degree of divergence and convergence among the non-Indo-European and non-Semitic languages of ancient Western Asia—some of which formed sub- and adstrata for subsequent Semitic- and Indo-European-speaking populations (such as, but not exclusively, Akkadian and Hittite). Mr. Gragg organized a seminar on the topic in the Winter Quarter 1979, which was participated in by a large number of Institute staff and students. Languages covered were: Hattic, Hurrian, Urartian, Kassite, Elamite, Sumerian, Proto-Dravidian, Kartvelian, and Proto-Indo-European. As an offshoot of the seminar a collective volume is planned, tentatively entitled *The Non-affiliated Languages of Ancient Western Asia*. A less ambitious offshoot were some discoveries about Urartian word order, which re-

sulted in a talk at the annual meeting of the American Oriental Society in St. Louis.

HANS G. GÜTERBOCK collated Hittite texts for the Dictionary in summer 1978 in Berlin, where he also attended the Rencontre Assyriologique Internationale, and in Ankara and Istanbul. With Prof. Robert L. Alexander of the University of Iowa he visited or revisited many Hittite monuments in various parts of Turkey. Results of these re-examinations will be found in a volume dedicated to Prof. Piero Meriggi and in several other Festschrifts. Mr. Güterbock presented the Hittite materials at the Chicago seminar on non-affiliated languages, and in April accepted an invitation from the Institute for Advanced Studies at the Hebrew University in Jerusalem to serve as Visiting Fellow for three months. There he read a paper on Hittite historiography at the symposium "Aspects of Cuneiform Historiography" organized by the Institute in cooperation with the Department of Assyriology of Hebrew University.

RICHARD T. HALLOCK has had more than a hundred additional Achaemenid Elamite tablets cleaned and baked, and these are now ready to be studied. Much work remains to be done revising Abdolmagid Arfaee's dissertation on the geographical setting of the Persepolis fortification tablets.

HARRY A. HOFFNER, JR., completed a lengthy article on Hittite historiography for *Orientalia*, and contributed to a new volume of Hittite texts from the Istanbul Archaeological Museum. Articles on Old Hittite appeared in the *Journal of Cuneiform Studies* and the *Journal of Near Eastern Studies*, and reviews of new publications in *Bibliotheca Orientalis*. Mr. Hoffner served as Chairman of the Ancient Near East Section of the American Oriental Society, and read a paper at the annual meeting on "The Hittite Word for Tribe."

GEORGE R. HUGHES worked betimes toward the publication of the Oriental Institute's archive of early Demotic papyri from Hawara, read Demotic texts weekly with

one or two students who wanted extra-curricular experience, continued for the third year as a member of the Smithsonian Foreign Currency Advisory Council, and has been available to advise when asked by the staff of the Demotic Dictionary project. Mr. Hughes was chairman of an external review committee for the Department of Oriental Studies of the University of Pennsylvania in November, and in April delivered the keynote address, "The First Thirty Years of ARCE," at the Philadelphia meeting of the American Research Center in Egypt.

JANET H. JOHNSON, besides writing sections of and editing the preliminary report on the first season at Quseir and spending a month in Egypt, and working on the Demotic Dictionary, has become a member of the project team investigating Greek magical papyri from Roman Egypt, with which the Demotic magical texts she has studied are contemporary and share many important elements. She is currently checking their translations of the Egyptian passages that appear in the Greek texts, in Greek script, and studying the relationships between the Greek and Egyptian materials. This year Ms. Johnson was elected to the Board of Governors of the American Research Center in Egypt.

HELENE J. KANTOR has devoted her research time this year to studying materials from her recent excavations at Chogha Mish and Chogha Bonut. The formal report on the first five seasons at Chogha Mish (1961-1971), written by P. P. Delougaz and Miss Kantor, is now partly in press; and the whole volume should be in the typesetter's hands this summer.

CHARLES F. NIMS has been engaged in the final editing of *The Tomb of Kheruef*. He is working on a new edition of a long hieroglyphic inscription at Karnak of an official in that temple at the time of the High Priest Pinodjem II. It was previously published by Naville, as *Inscription historique de Pinodjem III*, in 1883.

SIMO PARPOLA collated several hundred Assyrian legal documents in the British Museum and subsequently

wrote a lengthy article on the results of this collation, to appear in the journal *Assur*. He also wrote an article on "Assyrian Library Records" with Irving L. Finkel, and completed his portion of the edition of cuneiform texts discovered in Dūr Sharrukīn/Khorsabad. His copies of 981 previously unpublished Neo-Assyrian letters in the collections of the British Museum were published in early 1979. Mr. Parpola has also prepared a paper on "The Murder of Sennacherib" scheduled to be delivered at the 26th Rencontre Assyriologique Internationale in Copenhagen, July 1979. He is continuing his work on a computer corpus of Neo-Assyrian texts.

ERICA REINER has continued work on *Babylonian Planetary Omens*, the next fascicle of which will deal with omens from the planet Venus. Apart from the celestial omen texts, her main project at the moment is a book on Babylonian literature. Ms. Reiner discussed the Elamite language at the non-affiliated languages seminar. She has been appointed the Nora and Edward Ryerson Lecturer at the University of Chicago in the 1979/80 academic year.

MICHAEL B. ROWTON is preparing for publication a monograph on the role of the tribes and nomads in the history of western Asia. This will include ten articles already published, amplified with new material.

LAWRENCE E. STAGER has completed a lengthy manuscript on the ecology of highland villages in Palestine during the twelfth and eleventh centuries B.C. and its implications for Israelite origins. This will be a chapter in Joseph Callaway's *Ai and Biblical History*. He is now finishing a study of pier-and-rubble masonry, tracing its origins to tenth-century Phoenicia, its diffusion through Phoenician-Punic colonies in the western Mediterranean, and its later adaptation by Roman-Byzantine architects in North Africa. He believes that this peculiar construction technique was used to provide non-rigid structures more resistant to earthquakes. Mr. Stager hopes to publish the final report on the Carthage excavations in two large volumes: *Punic Religion* (with much

of the work devoted to the excavations in the Tophet) and *Carthaginian Trade* (utilizing mainly data from the excavations in the Commercial Port).

EDWARD F. WENTE has prepared an article for the *Festschrift* for Hans J. Polotsky treating the use of "end-quote" verbs of saying to clarify the concept of time in the Egyptian language of the 19th and 20th Dynasties. He has circled the country for lectures and symposia: in Miami, he discussed reconciling royal mummies with historical data; in Seattle and San Francisco he spoke on tomb builders and in New York on the Amarna reformation and counter-reformation, all in connection with the Tutankhamun exhibit; and in Philadelphia he presented a paper on New Kingdom chronology. Mr. Wente is now preparing a general volume on letters from ancient Egypt.

Research Archives

Richard Zettler When the Research Archives first opened its doors to patrons in September 1973, its shelves appeared nearly bare. To those who worked and studied here in that year it seemed as if the holdings of 6000 volumes and 5250 pamphlets would never grow enough to fill all the available shelf space in the reading room. Now, nearly six years later, tables have been pushed back to back, additional shelving installed, and the existing shelves packed tightly to accommodate our more than 11,000 volumes and 6000 pamphlets. In 1973, the number of patrons making use of the Research Archives in a given hour could be counted on the fingers of two hands. Now, it is not uncommon to find in any given hour more than forty students, faculty, and members using our collection. The Research Archives is crowded, but it is a crowding that carries with it a certain satisfaction and pride in growth.

The Research Archives continued to grow at a steady

pace in the period May 15, 1978 to May 15, 1979, as a comparison of the following 1978/1979 totals with those published in the Annual Report for 1977/1978 should show.

Monographs	4774
Series	2718
Journals	<u>3727</u>
Total Books	11219
Pamphlets	6096

The total number of volumes acquired (700) is slightly higher than in 1977/78, but seems to confirm a trend of that year and indicates that new purchases have indeed begun to level off, as stated in last year's Annual Report.

Satisfaction in the growth of the Research Archives should not mask, however, the fact that our holdings are inadequate in a number of areas, particularly Assyriology and archeology. With regard to Assyriological holdings, the Research Archives is still lacking portions of several important text collections. The publications of the texts excavated at Nippur by the old University of Pennsylvania Expedition (1889–1900), published in a series called *Babylonian Expedition of the University of Pennsylvania*, and the publication of texts excavated by the French Mission to Tello, published as the series *Inventory des Tablettes de Tello*, are but two examples. In addition, the Archives is lacking a substantial portion of the French Assyriological journal, *Revue d'assyriologie*. This journal has been reprinted in recent years, but the reprint is prohibitively expensive. On the archeological side, the Research Archives has managed to acquire some major, out-of-print items in the last year or two, but is still lacking very important excavation reports, for example Ernest de Sarzac, *Découvertes en Chaldée*, the publication of the old French work at Tello; Richard Starr, *Nuzi*; A. Tobler, *Excavations at Tepe Gawra*, Volume 2; and several of the reports on the excavations at Lachish and Samaria. Filling in the gaps in our Assyriological and archeological holdings has been and will continue to be a prime goal of the Research Archives.

The cost of funding a research library in our area of interest and of our size is, as might be imagined, consid-

erable. One method used with increasing frequency in recent years to cut costs is the exchange. The Oriental Institute trades its own publications (OIP's, OIC's, SAOC's, etc.) to interested institutions for the publications of those institutions. The year 1978/79 has seen the continuation of existing exchanges with the British School of Archaeology in Iraq, the Department of Antiquities of Cyprus, and the Corning Museum of Glass, among others, and the beginning or expansion of other exchange programs. We began this year, for example, an exchange with the Louvre, initiated through the good graces of Mme. Ch. Desroches-Noblecourt of the Department of Egyptian Antiquities of the Louvre. We were also happy to expand, at the initiative of Robert McC. Adams, already existing exchange programs with several East German institutions. The Research Archives now has standing trade arrangements with the Akademie der Wissenschaften der DDR, the Staatliche Museen zu Berlin, both the Ägyptisches Museum and the Vorderasiatisches Museum, and the Deutsche Staatsbibliothek. Through this program we have been able to acquire many otherwise unavailable items, including Keilschrifturkunden aus Boghazköi, a series of publications of Hittite texts, and a beautifully bound and nearly complete run of *Das Altertum*, a journal dealing with all aspects of ancient and classical civilizations, and we will receive regular subscriptions each year from now on to several journals published in East Germany and dealing with ancient Near Eastern studies. Additionally, we have received and will receive a number of Akkadian text editions and archeological studies. These exchanges result in considerable savings to the Research Archives over the course of the year, and will continue to be an important part of our operations.

As usual, in 1978/79 members of the faculty and staff and friends of the Oriental Institute were most generous to the Research Archives. Special thanks are due to Robert D. Biggs, editor of the *Journal of Near Eastern Studies*, for his cooperation and for his generous contributions of books, time, and advice in the course of the year. Klaus Baer, McGuire Gibson, and Charles Nims continued their annual contributions to the Research

Archives and also deserve thanks. For a large part of the year, I was out of the country in Iraq, participating in the Hamrin Dam salvage project and completing research in the Iraq Museum. During my absence, Frank Yurco oversaw the Archives' operations. The three students who so capably carried out the daily and routine tasks of the Research Archives over the last couple of years, Luanne Buchanan, Lorelei Corcoran, and Robert Ritner, have all moved on to take other jobs closer to their own areas of interest in the course of the year, and I need to express to them my sincere thanks for all their work. John Currid, Alice Figundio, and David Testen, also students in the University, stepped in and have carried out the day to day functioning of the Archives.

The Research Archives is open to faculty, staff, and members of the Oriental Institute, as well as students in the Department of Near Eastern Languages and Civilizations, and we encourage friends to make use of it. Hours are as follows:

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Fall, Winter, and Spring Quarters		
	Monday–Friday:	9:00–5:00
	Saturday:	12:00–4:00
	Sunday:	12:00–4:00
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Summer Quarter		
	Monday–Friday:	9:00–2:00.
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Publications

Jean E. Luther The Oriental Institute's very own colophon, which was chosen from entries submitted in a contest held in 1978 for Institute members, staff, and students, made its appearance in 1979. It depicts a striding winged lion looking backward in a circular frame that represents a twisted cord, and it is based on one of the Institute's chased gold openwork bracteates from Persepolis. The bracteate is almost four and a half inches in diameter and may be the largest of its kind known. It dates

typologically and archeologically to the reign of the Persian emperor, Artaxerxes II (404–359 B.C.).

The lion's first appearance as a colophon is on the title page of the Epigraphic Survey's *The Temple of Khonsu I: Scenes of King Herihor in the Court, with Translations of Texts* (Oriental Institute Publications, Vol. 100). This volume has been published as a portfolio and contains 110 looseleaf plates and the accompanying book of translations. The portfolio format is now being used for the publications of the work of the Institute's epigraphers because of the increase in publishing costs and the disappearance of binderies that have the staff to hand-sew such oversized books. The format has the advantage of allowing the reader to compare the text translations with the plates without having to flip pages back and forth.

This, the one-hundredth volume in the Oriental Institute Publications series, is a result of the work of the Epigraphic Survey, the oldest of the Institute's field enterprises. The Epigraphic Survey was created in 1924 to copy systematically and with complete accuracy the vast body of reliefs and inscriptions in temples in the Theban area, including those on two of the best preserved—the mortuary temple of Ramesses II at Medinet Habu and the temple of Khonsu at Karnak. The records of the former temple and its complex fill eight volumes published to date. The second manuscript about the temple of Khonsu has been delivered into our hands and will appear in due course.

In addition, the Epigraphic Survey volume, *The Tomb of Kheruef: Theban Tomb No. 192* (Oriental Institute Publications, Vol. 102) has gone to press. Kheruef was a courtier of Amenhotep III and served as steward to Queen Tiye, the mother of Akhenaton.

It is interesting to compare the time required for the accurate copying of reliefs and inscriptions with the time James Henry Breasted took to record the wall paintings in the very first volume of the Oriental Institute Publications (*Oriental Forerunners of Byzantine Painting: First-Century Wall Paintings from the Fortress of Dura on the Middle Euphrates*). Published in 1924, which is the year that the Epigraphic Survey was created, these paintings were at that time the only unconcealed oriental forerunners of Byzantine painting; and they were recorded by the

1920 Oriental Institute expedition in a single day. There was a reason for that, as Mr. Breasted explains in the preface: "It was the good fortune of the University of Chicago expedition to make the first dash undertaken by white men after the Great War across this desert region and the newly proclaimed Arab state, from Baghdad to Aleppo and the Mediterranean. . . . Creeping up the Euphrates as quietly and as expeditiously as we could, and making every effort to elude the treacherous and hostile Beduin, we reached Dura-Şālihiyah just as the British were about to begin their retirement down the river."

Excavations at Nippur: Twelfth Season (Oriental Institute Communications, No. 23) by McGuire Gibson et al., described more fully in last year's report, was published in 1979. This work is a report on the excavating begun during the eleventh season in two areas on the West Mound.

This year the Oriental Institute cooperated with The Art Institute of Chicago in producing *Ancient Textiles from Nubia*, a guidebook brought out in conjunction with the exhibition at the Art Institute from May 23 to August 5 of Egyptian Nubian textiles from Meroitic, X-group, and Christian tombs (100–600 A.D.). The volume contains an essay by Mrs. Keith C. Seele, widow of the director of the Oriental Institute Nubian Expedition in 1962/63 and 1963/64, about the excavations and one by Bruce B. Williams about the historical, geographical, and archeological background of Nubia and northern Sudan.

In various stages of completion are: *Computer-Aided Analysis of Amorite* (Assyriological Studies, No. 21) by Ignace J. Gelb et al., the first of two volumes; *Chogha Mish: An Interim Report on the First Five Seasons of Excavations, 1961–71* (Oriental Institute Publications, Vol. 101) by Pinhas P. Delougaz† and Helene J. Kantor; *The Holmes Expedition to Luristan* (special publication) by Maurits N. van Loon; *Prehistoric Archeology along the Zagros Flanks* (Oriental Institute Publications, Vol. 105) by Patty Jo Watson et al., and *Excavations between Abu Simbel and the Sudan Frontier I: Middle Nubian Remains from Cemeteries T, K, and U* (Oriental Institute Nubian Expedition, Vol. 5) by Bruce B. Williams.



The Oriental Institute colophon, after a gold roundel from Persepolis.



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The Oriental Institute Museum

John Carswell The past year has seen the beginning of a long-term series of changes, within both the structure of the museum and its ancillary services. That we have been able to initiate these changes at all is largely due to a grant of \$15,000 from the Institute of Museum Services, and to the proceeds from the Members' Dinner of 1978. Many of these changes have taken place behind the scenes, and are therefore not visible to the general public; but they are fundamental to the efficient operation of the museum.

High up on the list of priorities has been the reorganization of the basement: the rationalization of the pattern of storage, preservation, registration, photography, and space for research and teaching. A new room has been constructed for the overhead projectors, and the entire entrance area cleaned and redecorated. The Registrar's quarters have been tidied up and painted and the Preparator's area judiciously rearranged, and a start has been made in extracting strayed scholars and irrelevant equipment from the closed storage area to provide better security. All the staff in the basement have been involved in this process, but it particularly owes its success to our Conservator, Barbara Hall, who has devoted a great deal of energy and enthusiasm to it, far beyond her immediate responsibilities for conservation. It is a pleasure to note that Barbara Hall has been promoted to Associate Curator in recognition of her services.

We have also been fortunate in the appointment of a new Registrar, Anita Ghaemi, who took up her position last October. Mrs. Ghaemi came to us after several years' experience working at the Metropolitan Museum and in Iran, and immediately applied her talent for organization and knowledge of Near Eastern material to the

daunting topic of our registration. In practical terms, this has meant substituting an accession year/lot/individual number system for all newly-registered material, instead of the inappropriately archaic numerical sequence system followed by the Institute since its inception. This was swiftly followed by a new system for the location of objects so that they can be tracked down immediately in their progress around the building for study, conservation, exhibition, or loan. New cards have been devised for registration, reattribution of objects, and loan forms. Nearly two hundred objects have been registered and catalogued from the Bab edh-Dhra excavations, and almost as many from Fustât. In the past 8 months alone, 28 scholars and students from the United States and abroad have been accommodated, some for as long as a month. In all of this she has been greatly assisted by a number of volunteers and graduate students.

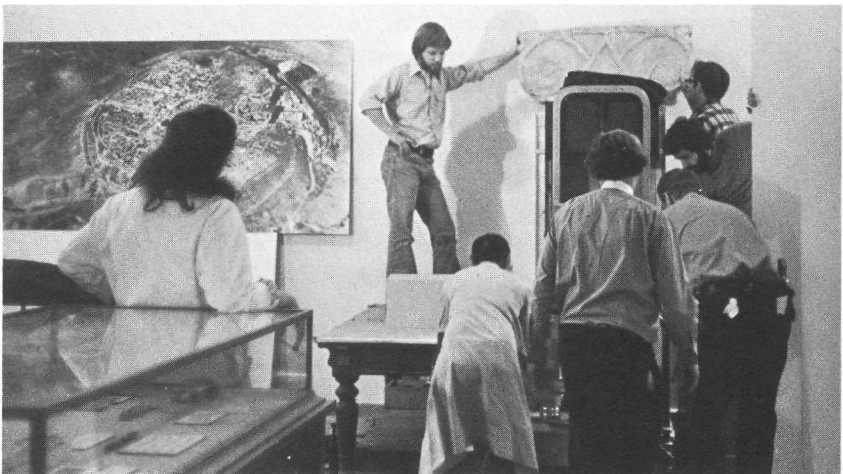
A second new staff member, Ronnie Burbank, joined us as Archivist last September. She is a graduate of Barnard College, Columbia University, and the University of Chicago, and has previously worked in the Museum of the City of New York and The American Museum of Natural History. The archives of the Oriental Institute have been gathering an undue amount of dust in recent years, and are also long overdue for a strategic reorganization. The archives comprise two basic collections of photographic and archeological records, interdependent on each other and closely related to objects in the Museum collection. The photographic collection consists of some 64,000 photographs, 43,000 negatives, and 19,000 slides and is widely used both within and outside the Oriental Institute. Many of the older photographs need attention, and a start has been made toward their preservation. The old glass slide collection has been revised and moved to the basement where it is now accessible as a valuable archive; the 35mm collection has also been put in order and a new system introduced for borrowing the material, with forms and cards to keep track of the slides. The demand for photographs from outside is on the increase, and strenuous efforts have been made to expedite orders as quickly as possible. As for the archeological records, a detailed plan has been



made of their present location, and a start made boxing the material in acid-free containers. Mrs. Burbank attended a regional meeting of Archivists in Chicago in May, and is now preparing a grant proposal to cover the preservation and basic reorganization of our archival material.

In the galleries themselves, the most important activity has been the redisplay of the Palestinian collection, and the reorganization of the gallery itself. The museum has always lacked sufficient space for temporary exhibitions and the new gallery has been planned in such a way that it can be quickly transformed into a suitable space for large or small-scale exhibitions. The permanent partitions have been removed and a single, unified space created. The windows have been screened so that there is now diffused, natural lighting supplemented by an extended network of spotlights. The Palestinian collection has been redisplayed using a combination of refinished older cases and new cases made in our own workshops, by Ray Tindel and Honorio Torres. The Bab edh-Dhra pottery has been integrated into the collection and a novel feature, unique in the United States, is a linear sequence tracing the development of Palestinian pottery from the earliest Neolithic period right up to medieval times. A simulated cave has been constructed for our Dead Sea Scroll material, using a color

Museum crew installing a display in the Palestinian Hall.



Workman demolishing an old partition in the Palestinian Hall.

photograph of the Judean hills taken by the Chairman of our Volunteers, Peggy Grant. The quest for verisimilitude, incidentally, led Barbara Hall, Ray Tindel, and myself to make a winter expedition, through deep snow, to the largest tambourine factory in the world, in search of real parchment!

Our first exhibition in the newly cleaned Palestinian gallery, "From a Syrian Suq," consisted of a full-scale reproduction of part of a *suq*, complete with shops and goods for sale. This ran for a month at Christmas, the shops being stocked with material specially purchased the previous spring in Aleppo and Damascus. Again in the quest for authenticity, graffiti on the walls of the *suq* were provided by students in Carolyn Killean's first-year Arabic class. A direct result of the exhibition was a 25 percent increase in museum attendance, in spite of very bad weather. An indirect result was the redesign of our Suq shop by the architects Skidmore, Owings and Merrill. This was thanks to the distinguished engineer, Dr. F. R. Khan, who visited the *suq* exhibition, and was sufficiently intrigued by it to offer the services of his firm for a nominal fee. This luckily coincided with an anonymous gift of \$1,000 specifically donated to the Museum for this purpose. We are now looking for a donor who will help us to realize the ingenious and practical architectural design that has been prepared.

The second exhibition was a show specially mounted for the Demotic Dinner. This consisted of Egyptian and Greco-Roman artifacts, covering the period when the Demotic language was used, as well as a photographic sequence explaining the dictionary project. The Museum staff was also involved in other aspects of the dinner including the decoration of the galleries, the production of Demotic marriage contracts and proverbs from the Wisdom of Onchsheshonqy as souvenirs, publicity, and the provision of an Oriental dancer for after-dinner entertainment. Projected exhibitions in the process of negotiation include "Excavations at Carthage, Then and Now" (1980); "The Arts of the Mamluk Dynasty" (1981); and an exhibition of our own Islamic bookbindings (1981).

Among other improvements in the public area have been the provision of a map showing the sites in the



"From a Syrian Suq," Fall, 1978.

Near East with which the Oriental Institute has been specially associated; a new plan for the museum, to orient visitors; the redecoration of the lower basement area and washrooms; and the provision of a ramp for disabled visitors, and a new wheelchair. The new colophon of the Oriental Institute, the result of a competition won by Jean Grant, has been adapted and used with great success on the title-page of Institute publications and on museum cards and documents; it is currently in production for tote bags and a T-shirt for sale in the Suq.

A new fascicle of the University of Chicago Press's text-fiche series has been prepared by David Nasgowitz, on Professor Carl Kraeling's excavations at Ptolemais in Libya. Mr. Nasgowitz has participated in the training of museum docents through gallery talks and a lecture on Syro-Palestinian archeology. He has also looked after the arrangements and insurance for a number of loans to other museums. In the past year, we have lent material to the Nubian exhibition at the Brooklyn Museum; the Jacksonville Museum; the Peabody Museum at Yale;

and the Field Museum in Chicago. In addition to the textiles themselves, we loaned more than two hundred objects to the Nubian Textile exhibition at the Art Institute of Chicago.

In the Museum office, a recorded message has greatly alleviated the torrent of phone calls demanding general information. All the same, our secretary, Myrna Simon, tells us that our most common phone call is for an appraisal of an ancient Japanese scroll! Information about our slide-lecture programs on Egypt and Mesopotamia, mailed out with tour confirmation cards, has resulted in a large increase in lectures. To date, thirty-four lectures have been given, as well as nine film shows. Museum attendance dropped in January because of the blizzard, but increased by nearly six hundred in March. Since July 1978, we have given 493 guided tours to groups coming from as far afield as Iowa, Missouri, California, Wisconsin, Michigan, Indiana, Tennessee, New York, Minnesota, and Hawaii. Visitors to the Museum came from many countries and included twenty Chinese, the Director of the Iraq National Museum, an East German cultural delegation, the Director of the Kuwait Development Fund, the Finance Minister of Abu Dhabi, the Curator of the Al-Azhar Museum in Jerusalem, the Minister of Culture from Algeria, the Director of the Iran-Bastan Museum in Tehran, and a group of Russian immigrant teenagers.

The Conservation Laboratory

*Barbara J.
Hall*

May 15th marked the fifth anniversary of the Conservation Laboratory established with the aid of a Women's Board Grant in 1974. During these five years approximately six hundred objects have been treated, some coming in for minor repairs and cleaning and some undergoing major conservation.

When the lab was set up, there were two serious problems that had priority for treatment. The first was the presence of soluble salts, absorbed during burial, in many of the ceramic and stone objects, and the second was the continuing corrosion of the bronze and iron artifacts in Chicago's high summer humidity. If not removed, soluble salts will over a period of time cause an object to disintegrate; but the salts can easily be removed by soaking an object in changes of tap water for four to six weeks. The thirty-gallon stainless steel tank in the lab has been, and will continue to be for some time to come, constantly in use for soaking the large backlog of pottery, sherds, and limestone reliefs in our collection.

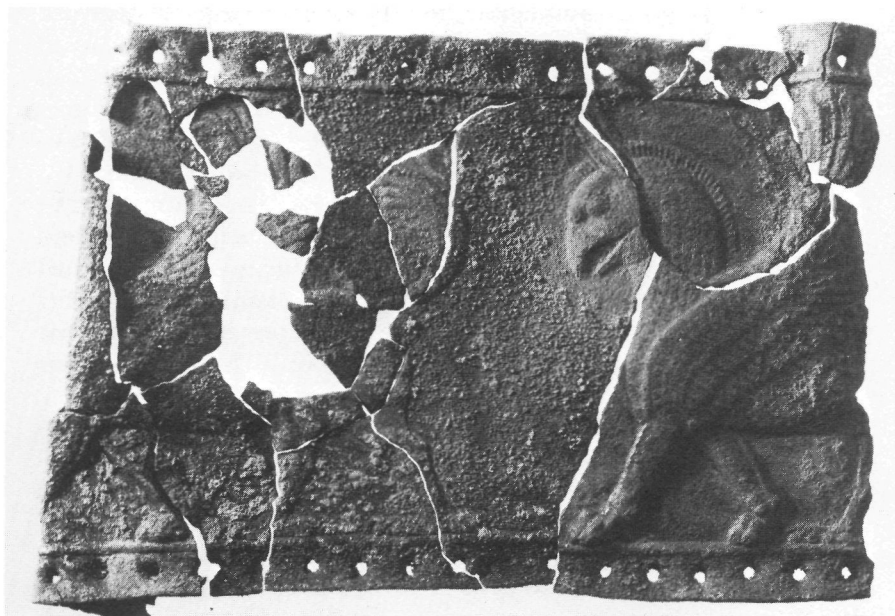
The second problem, that of metal corrosion, could be dealt with more quickly. With the help of a federal grant, we constructed a special climate-controlled storage room in the basement that maintains a low humidity of thirty to thirty-five percent to prevent atmospheric moisture from initiating corrosion. The metal objects are now stable and can be worked on at our leisure.

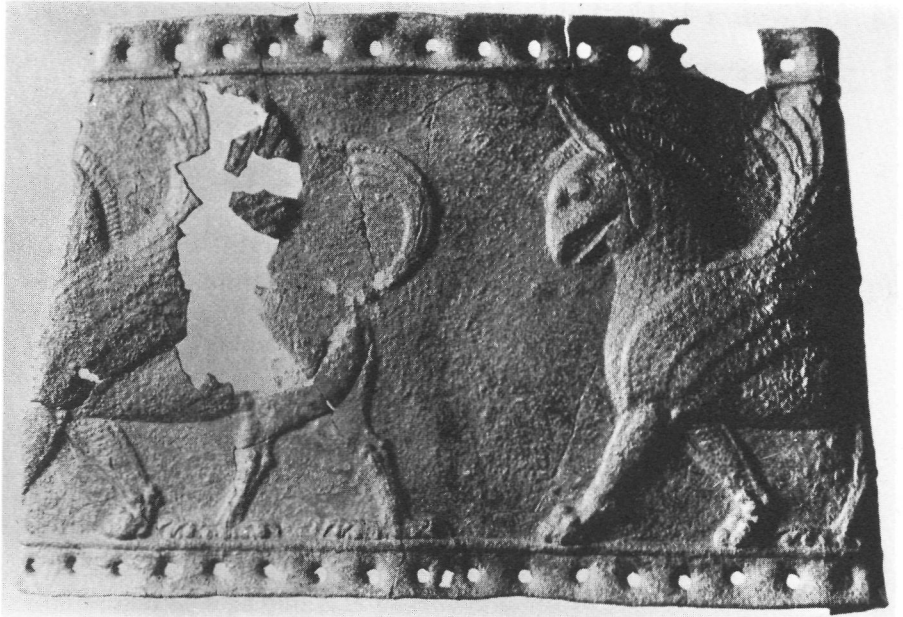
Conservation has also been carried out on a wide variety of other materials. Most of our bone and ivory objects, including the Megiddo Ivories, have been cleaned and restored. Papyri have been unrolled and repaired; textiles have been washed and mounted on fabric backing. Pottery has been restored (much of it by our faithful twenty-eight-year volunteer, Mrs. Elizabeth Tieken). Fragile wood, cartonnage, and gessoed artifacts have

been cleaned and strengthened; and molds and casts of objects have been made when needed.

In spite of a heavy work load in the lab, we have managed to get up to the galleries to do some conservation on our permanent installations. The large Assyrian reliefs and the Persian stone sculptures have been washed, and both the plaster cast over the Egyptian Hall entrance and the plaster restoration on the Ishtar Gateway have been repainted.

Although many artifacts still need treatment, I hope over the next few years to spend more time getting our dismal storage area into better shape. We desperately need to repaint the walls and floors (the last painting was done almost fifty years ago), to purchase more metal cabinets in which to store our Nubian material plus special dustproof cabinets for the more fragile material of leather and textile, and to reorganize our space more carefully. Some work has already been done—the installation of new fluorescent lighting has been an enormous improvement—but there is much to keep us busy for the next five years.





Before, during, and after conservation and restoration of a bronze band of reliefs from Persepolis.

The Photographic Laboratory

Jean Grant

While most photography at the Oriental Institute uses large-format negatives, four by five inches and up, sometimes we must sacrifice some quality for the sake of speed. If a photo is worth a thousand words, we sometimes have to settle for 999.

One such job was the Bab edh-Dhra exhibit in the Palestinian hall, which incorporates many objects. The fastest way to shoot them is to sort them by size and/or shape, so we made a set-up on a table and were able to record numbers of objects between changes of the lighting or the position of the 35mm camera before they were transported to a higher plane (the first floor). To get as many items as possible done quickly, the photographer needs an assistant. Both David Nascowitz and the Photo Lab's regular volunteer, Barbara Watson, were helpful in selecting objects, marking down object numbers, and returning objects to the line-up while I checked the lighting, turned the subject, and clicked. From what I hear of the number of Bab edh-Dhra objects, the "few" we took were like a drop of water in the Dead Sea.

The Nubian objects for the Art Institute show presented a different problem, in that they were not mine exclusively to handle. They were being recorded by the registrar or checked over or sometimes conserved, so I could not sort them by size—and they range from finger rings to pieces of architecture, from ear studs to offering tables. I worked with the 35mm camera for the smaller pieces and the view camera for the larger ones, but toward the end I was doing a lot of adjusting of lights and camera. The more adjusting, the less photography you can do, but the adjusting is necessary in order to impart as much information as possible. There were further difficulties in collating museum and field numbers to include in the picture, and again Barbara Watson was

very helpful; we at least tried to get the scale into every shot.

We also did more Nubian bowls, etc., for Bruce Williams' publication, but if I've learned one thing about Nubian bowls, it's that there are always more Nubian bowls.

Another project is getting the Fustat collection on film—I hope it's at least half done—but one problem with a big job is that it is always getting interrupted by regular orders, until the regular orders have to be backlogged in order to return to the big project. Most of the regular work is printing five by seven and eight by ten glossies for all sorts of clients. We are grateful for the help of Barbara Watson and Gretel Dreyfuss, who have done a lot of these this year. We also had a number of oversize prints this year, for the Syrian *suq*, the Demotic Dinner display, and the Palestinian hall; and several oversize orders, such as three hundred eight by ten prints for study of our Islamic bookbindings, and Mr. Carswell's Sri Lanka expedition.

We even had a professor from Israel looking over our shoulder while we photographed some Egyptian objects. He hadn't liked the way one of our stelas had been done in the past (I'm happy to say I satisfied him). He also helped in getting some scarabs the right way up for their pictures—after all, I'm neither an Assyriologist nor an Egyptologist, and on some things, like tablets, it makes a difference!

The hardest work of all, though, was taking pictures at the members' dinners. Trying to drink, eat, say hello, *and* getting as many of you as I can to photograph as happy and as good as you look is tough. Sorry to say, I'm still trying for some of you, but I hope you'll keep coming back anyway.

Membership Program 1978/79

*Bernard
A. Lalor*

Ordinarily I present here a summation of the year's membership program, but before reviewing this year's events, I will survey our plans for the future: recently, we have been working to improve our program. In the beginning of this year, the membership subcommittee of the Visiting Committee met to discuss two major topics: increasing the total number of Oriental Institute members and improving the offerings of the membership program. Concurrently, Mr. Albert F. Haas, a member of the subcommittee, volunteered a portion of his time each week to coordinate and develop with me the suggestions raised by the subcommittee. Bud Haas has energetically helped to steer our efforts in these two separate areas. I am grateful for his assistance and am sure that the members will feel the benefits of his efforts in the near future.

Part of our orientation toward the future was launching a drive for new memberships. The drive will last for two years (1979–1980) in an effort to double the number of members, raising the total from two thousand to four thousand. We began with a request sent to the Volunteer Guides to suggest the names of prospective members. We also hosted an open house for residents of Hyde Park-Kenwood (the neighborhoods around the University) who were not members. At the same time, we have mailed to University alumni in the Chicago area invitations to join the Institute. The results are beginning to show; 275 new memberships have been received in the first half of 1979. To fulfill our goal we will have to double our efforts—thus we set a greater challenge for future months.

The second area of consideration is program development. For several months we have been analyzing all aspects of the membership program. To assist in this

task, John Brinkman has named an advisory committee for the membership program, which offers suggestions and discusses improvements in the program. Its many useful suggestions will, I believe, make membership in the Institute more exciting and rewarding in future years.

Now let us return to the past year. The lecture series opened with the return of King Tut; James E. Harris of the University of Michigan discussed the use of X-ray research to shed new light on the genealogical relationships within Tut's family. Next we toured Yemen via an illustrated report by Raymond Tindel and Dennis Collins of the Oriental Institute, who recently conducted a preliminary survey of the ancient sites in Yemen. Then followed a look at eastern Iraq with T. Cuyler Young, Jr., of the Royal Ontario Museum. Young discussed his work on one of the excavations conducted as part of the international salvage project in the Jebel Hamrin valley. In February, William Dever of the University of Arizona surveyed for us archeological work in Israel relating to Biblical studies. In March, Robert Anderson of London showed us Qasr Ibrim, a site on the southern border of pharaonic Egypt. Next we peered at very distant times, the earliest settlements of prehistoric man in southeastern Turkey as uncovered by Robert and Linda Braidwood of the Oriental Institute. We closed the lecture series in Palestine of the Early Bronze age at a town called Ai. Our guide to this site was Joseph A. Callaway of the Southern Baptist Theological Seminary, Louisville. Some members outside Chicago listened to these lectures from cassettes that they requested from our office.

Members' courses met again in the fall, winter, and spring. Through sun and rain, but this year mostly snow, Chicago area members came on consecutive Saturdays, some to study Egyptian hieroglyphs, some to learn more of Pharaoh Akhenaton's religious innovations or of the Hittite civilization, and others to follow the history of archeology in Egypt and in Mesopotamia. The course offerings were expanded this year and we plan to begin an interesting sequence in the fall of 1979.

News & Notes continued as our monthly newsletter to

all members throughout the world. This year, Ron Brown, a graduate student in the English Department of the University, took over the duties of editor and with the assistance of Shirley Fisher of our Publications Office sent out the "news" each month. Ron will be leaving the University this summer and will be replaced by Mrs. Robert W. Maynard. Elda Maynard comes to this post after launching and directing the "Docent Digest" for the Volunteer Guide Program. She will begin her new duties this fall.

Our travel program again offered the Egypt itinerary and also a weekend visit to New Orleans to view the Nubian Exhibit. We have exciting travel plans for 1980. Not only will there be another tour to Egypt in March, but also a specially designed journey to Syria in May with the knowledgeable guidance of our curator, John Carswell. In October, members may join an archeologically-oriented three-week tour of China.

As a last note, I wish to give acknowledgement and thanks to those students who have assisted with the routine, crises, and special projects of this office, Luanne Buchanan, Peter Lacovara, Ali Mostaghimi, Carol Meyer, and Dennis Collins.

The Volunteer Guide Program

Peggy Grant The Volunteer Guide Program enjoyed a varied and interesting year from September 1978 through May 1979.

The cornerstone of the Museum docent program is the responsibility shown by each captain for his or her day. Each captain finds out how many tours there are to be, introduces the group to the Oriental Institute, and divides it up among the docents on duty for the tour of the galleries. In addition the captain helps and supervises the work of new docents, and often has to help docents find substitutes when needed. These remarkable people are:

Barbara Sansone (Tuesday A.M.)	Hilde Zurne and Elizabeth Spiegel (Thursday P.M.)
Terry Friedman (Tuesday P.M.)	Myrette Katz (Friday A.M.)
Jane Imberman (Wednesday A.M.)	Milton Droege (Friday P.M.)
Muriel Nerad (Wednesday P.M.)	Calla Burhoe (Saturday)
Joan Barghusen (Thursday A.M.)	Teresa Hintzke and Albert Haas (Sunday)

Joan Barghusen, Co-Chairman and Educational Consultant, developed the Museum Highlights sheet now available to Museum visitors, and wrote a series of gallery activity sheets which will be used by children and families visiting the galleries. She wrote a helpful report on the educational activities at the Royal Ontario Museum in Toronto. Last year Gerry Enck and Joan Barghusen had developed the Mesopotamian Slide Show, which groups using the museum for tours may see; and this year Joan is finishing an expanded slide talk on Egypt, which we have been using since March.

She is in the process of preparing the background notes for this slide talk.

Mary Ann Wayne, Co-Chairman and Librarian, has supervised the Docent Library by cataloguing all the books, arranging for a reserve shelf during the training programs, and selecting books to be purchased. The Volunteer Guide Program benefited from a gift of \$125.00 from the Oriental Institute for the purchase of books.

Lilian Cropsey, Docent Archivist, has taken on the Herculean task of creating a file for the Docent Office of the objects in the Museum and noting publications in which they are mentioned. With the help and cooperation of Anita Ghaemi, Registrar, she has spent many hours in the basement files and in the Archives doing the basic research on this project. Barbara Frey, Mimi Futransky, and Janet Helman have helped on this project.

Myrette Katz, Chairman of Special Events, organized a Memorial Day weekend tour to the New Orleans Museum of Art to see the Nubian Show titled "Africa in Antiquity." It was a wondrous weekend for all who were able to go. She has helped in many other ways with suggestions and advice.

Elda Maynard, Editor of the Docent Digest, has kept us on the edge of our chairs with her story of Breasted and the Oriental Institute told in installments through the year. We are deeply indebted to her for her lively editorship of the Docent Digest, a most important tool in keeping us informed and stimulated.

Klaus Baer, Jill Maher, and Carolyn Livingood agreed to serve on an informal advisory committee to the Docent Program. I am grateful to them for their wise counsel. Not only did they help plan the Docent Training Courses, but they were the foundation upon which the Monday course was built. Professor Baer gave an afternoon's talk covering Egyptian history, and another afternoon introduced the new docents to the Egyptian writing system and Egyptian concepts of art. Jill and Carolyn spent more than fifteen hours in the galleries over the eight-week period and many more hours preparing their presentations. They explained Museum objects and put them into historical and artistic context.

The new docents as well as the old docents who followed the course benefitted from new knowledge and insight.

The Monday Docent training course included lectures by Judith Franke, Professors Klaus Baer, John Brinkman, Helene Kantor, Erica Reiner, and Edward Wente. David Nasgowitz talked to us about the history of Syria-Palestine. Professor Kantor gave us two Mondays, one on Mesopotamian art and one on the history and art of Iran. We are deeply grateful to these scholars who have given of their time and their knowledge so generously.

A Saturday docent training program, designed for working people who wished to volunteer their time to the Museum on weekends, was instituted. The docents in training were allowed to attend the Members' courses given by Peter Lacovara on Egyptian archeology and by Carol Meyer on Mesopotamian archeology; they were also able to hear six illuminating gallery talks by Judith Franke, who covered the Assyrian and Mesopotamian collections. In addition, Mary Ann Wayne and Marianne Ford introduced the class to the Egyptian gallery, Marianne Ford gave a presentation in the Iranian gallery, and Calla Burhoe lectured on Palestine and explained the pottery sequence. Saturday docents Bette Miller and Shirley Jean Fisher also helped train the Saturday docent class.

A monthly series of Monday meetings with programs of interest to docents began with a gala luncheon at the Quadrangle Club given by the Museum Curator, John Carswell, to inaugurate the closer relationship of the Volunteer office and the Museum office. All volunteers were honored, and special thanks were given to the retiring chairman of the volunteers, Jill Maher. Other Monday programs featured Professor Helene Kantor in an art history gallery talk, Ms. Barbara Reque on theory of museum education, Milton Droege on Samarkand, Professor Lawrence Stager on the Palestinian gallery pottery sequence, Joan Rosenberg on her experiences in China, Barbara Hall on museum conservation with a tour of her laboratory, Jill Maher on digging in Iraq, David Nasgowitz on religion and religious ideas found in the galleries, and Bud Haas on Nubia with a preview of the Nubian show. There were no Monday programs

during April and May because of the training program, but the docents sponsored a lecture by Bruce Williams on Nubia given on Sunday afternoon, May 6.

Special mention must be made of Eleanor Swift, who, in addition to her regular selling session in the Suq, gives many hours behind the scenes. Frances Studebaker also gives an extra day in the office as well as selling on a regular basis.

We take pleasure in presenting the new docents trained in the spring of 1979: Joan Bessey, Luciano Franchi di Alfaro III, Anita Greenberg, Janet Helman, Blanche Hirsch, Marsha Holden, Jean Icenogle, Elsie Loeb, Jack Schwartz, Lexie Spurlock, Elaine Whitman, and Neal Whitman.

In addition to these new docents, several regularly scheduled Suq docents and other Museum volunteers registered for the courses: Leonard Byman, Carol Green, Diana Grodzins, Mary Irons, Florence Teegarden, and Bobbette Teitelman.

To summarize our activities during the period from September 1978 through May 1979, forty-five regular and twelve part-time Museum docents took 16,725 people on tours through the Museum galleries. And during this same period, seventeen regular and seven part-time Suq docents sold postcards, jewelry, books, and sundries to these visitors. In addition, the Museum docents presented forty slide shows, equally divided between Egypt and Mesopotamia.

The Chairman and all the volunteers, whether regularly scheduled or willing to be on call when needed, owe a debt of gratitude to the Curator, John Carswell, for his encouragement and support, and to the friendly help from all the Museum staff: to Mr. Ray Tindel and Mr. Honorio Torres, who let us get in their way in the galleries on Mondays for the docent programs and training sessions; to David Nasgowitz, who gave us access to slides, carousels, and keys, as well as answering questions on many subjects; to Ronnie Burbank, Archivist; and to the indispensable Myrna Simon, who schedules our tours, coordinates the slide shows, and, as a former docent, is understanding and patient with us all.

*Museum
Docents
Regularly
Scheduled*

Dorothy Angelos
 Roberta Anghis
 Joan Barghusen
 Teddy Buddington
 Calla Burhoe
 Lilian Cropsey
 Mary D'Ouville
 Milton Droege
 Sylvia Easton
 Gerry Enck
 Laurie Fish
 Shirley Jean Fisher
 Marianne Ford
 Barbara Frey
 Terry Friedman
 Mimi Futransky
 Stacey Greenberger
 Sally Grunsfeld
 Cissy Haas
 Albert Haas
 Teresa Hintzke
 Janet Hurwich
 Jane Imberman

Myrette Katz
 Mary Jo Khuri
 Kathryn Kimball
 Jill Maher
 Bette Miller
 Muriel Nerad
 Gloria Orwin
 Kitty Picken
 Rita Picken
 Jo Anne Putz
 Laura Reinstein
 Priscilla Rocca
 Joan Rosenberg
 Janet Russell
 Marion Salmon
 Barbara Sansone
 Elizabeth Spiegel
 Oliver Szilagy
 Rosalinde Vorne
 Mary Ann Wayne
 Susan Westfall
 Hilde Zurne

*Museum
Docents
Part Time*

Betty Baum
 Mary Christopher
 Ida DePencier
 Lita Gaber
 Nancy Gerson
 Peggy Grant

Alice Irwin
 Jan Jentes
 Suzanne Krill
 Alice Mulberry
 Doris Shayne
 Malinda Winans

*Oriental
Institute
and Museum
Volunteers*

Gretel Dreyfuss
 Gerry Enck
 Kay Ginther
 Blanche Hirsch
 Carolyn Livingood
 Jill Maher
 Elda Maynard
 Lisa Margolin

Florence Ovardia
 Alice Ryerson
 Bobette Teitelman
 Betty Ticken
 Barbara Watson
 Mary Ann Wayne
 Peggy Wick

Heard In, Around, and About the Suq

Georgianna Maynard

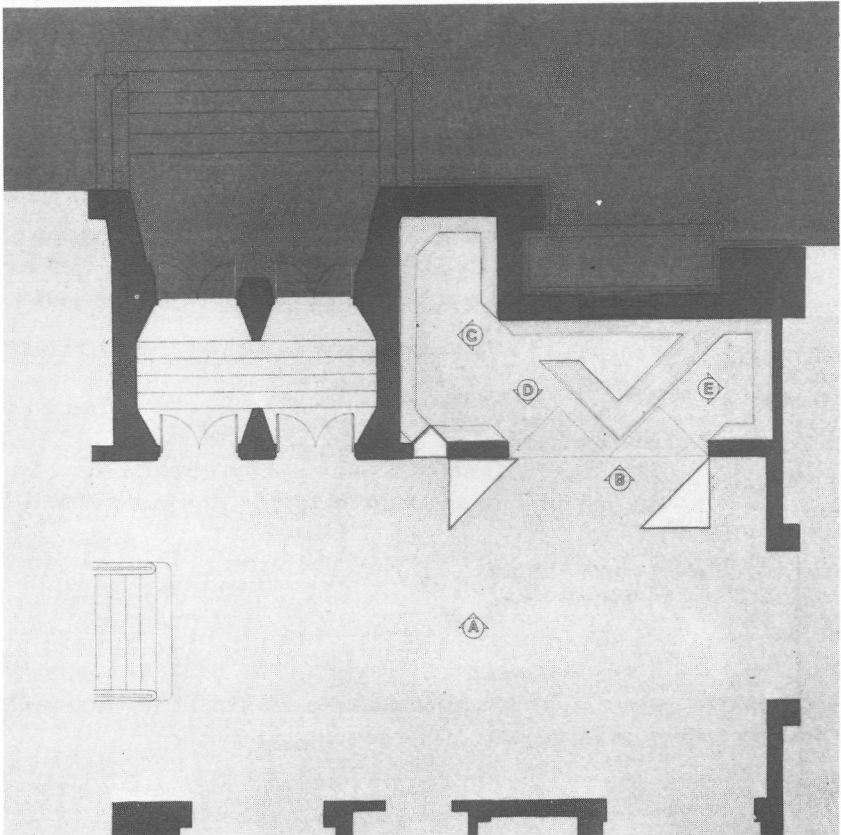
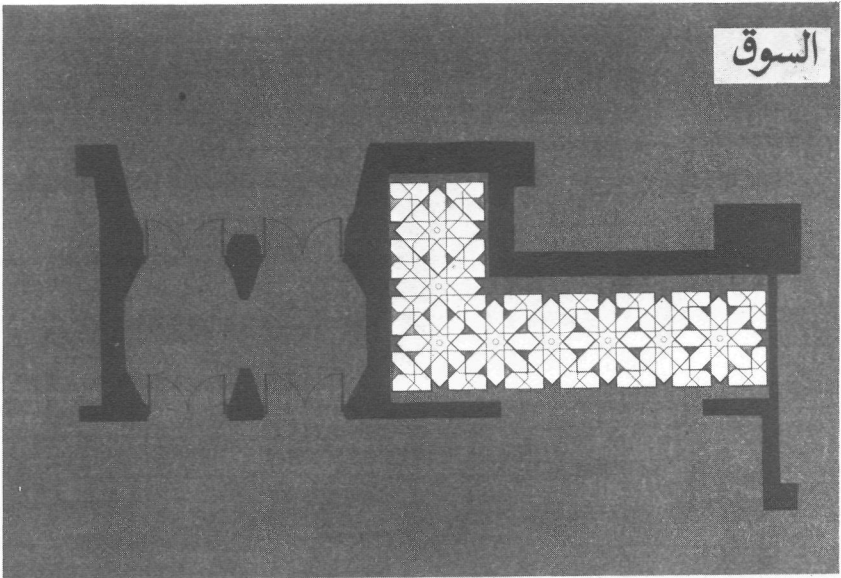
A School Boy The Suq is fantastic! I wanted a souvenir of our class's really great tour of the museum, but I had only fifty cents. What ancient bit could I get for that? I got an ankh. The lady who sold it to me said she'd put in the sales tax. I'll never forget that day as long as I have my ankh!

A Volunteer The Suq is fantastic! It costs me money to volunteer there! Truly, every time I come in to sell, I buy! First it was the beautiful lapis lazuli ring from Tibet. Then it was some fabulous beads from Afghanistan . . . and today, amber! Everyone admires my unusual jewelry. I love it!

A Doctor from Billings Hospital The Suq is fantastic! It saved me and my important guest. He was on his way to the airport when he suddenly stopped in mid-stride. "My wife . . . I must take her a gift from America. Something real. Not airport plastic stuff. Where can I go?" "The Suq," I said. "That's the place." He bought a handcrafted gold ankh with a teardrop malachite setting . . . and a gold chain from Italy to go with it!

A Professor The Suq is fantastic! I told my students to buy five books for last term. They groaned. It wasn't just the cost, but the time they'd have to spend standing in line. They came back (or most of them did) with four of the five and tales of enjoying the time! (The fifth book was out of print.)

A Teacher on the North Shore The Suq is fantastic! My sixth-graders became really excited about the ancient Egyptians, so I asked the Suq to send me Senet, King Tut's game. Those kids play like



kings! But that's not all. When the Suq got in posters of hieroglyphs, they told me about them. Now one decorates each classroom. We'll have an archeologist out of this class!

*A Museum
Visitor*

The Suq is fantastic! After seeing all the beautiful ancient things in the Museum, I wanted something really old, old that I could hold in my hand. At the Suq I bought a string of mummy beads . . . complete with guarantee of age!

*A Mail-order
Customer*

The Suq is fantastic! It got me out of hot water. I was slow on Christmas shopping. I wrote the Suq for an Egyptian cat. They didn't have it, but they ordered one at once and sent a letter telling my daughter it was on the way. I was saved!

A Member

The Suq is fantastic! My mother flew in from London on Mother's Day. By Monday, I had a token of my joy and esteem. The Suq opened just for me in the emergency.

A Decorator

The Suq is fantastic! Where else could I find *four* canopic jars for the man-in-my-life who has *everything*!

*The
Accounting
Office*

The Suq is fantastic! It makes money, too! During the last twelve months gross sales were \$71,993.59. The profit goes to projects at the Oriental Institute.

*The Acting
Manager*

The Suq is fantastic! It functions almost entirely with volunteer personnel. Peggy Grant has lined up two for almost every half day, and substitutes who fill in on call. Our thanks to the regulars Rochelle Rossin and Elizabeth Tileston; Frances Studebaker; Dianna Grodzins and Carol Green; Evelyn Dyba and Eleanor Swift; Karen Shymkus and Irene Koinis; Mary Schulman and Barbara Watson; Leonard Byman and Mary Irons; Peggy Carswell; and Mardi Trossman, Maria Ahlstrom, and Florence Teegarden. Special thanks too, to Kay Ginther, Florence Ovadia, Peggy Carswell, Frances Studebaker, and Eleanor Swift for the help they give behind the scenes.

*Suq Docents
Part Time*

Jean Brown
Agatha Elmes
Irma Manewitz
Mary Schloerb

Helga Singwi
Joyce Smith
Opel Sucharetza

Special Endowments

The Chester D. Tripp Endowment Fund

Under the terms of the will of Mr. Tripp, who died in 1974, an endowment fund was established to support various programs of the Oriental Institute. During 1978/79, income from the fund helped support the following activities:

- preparing the Nubian Textile Exhibition, in conjunction with the Art Institute
- providing honoraria for lecturers in the Docent lecture program
- purchase of an electric typewriter for the Demotic Dictionary project
- furnishing travel money for the Hamrin Excavations
- supplying new books for the Docent Library
- purchase of filing cabinets for the Hittite Dictionary
- purchase of a new fireproof storage cabinet for the Museum preparator's workshop

The Maurice D. and Lois B. Schwartz Endowment Fund

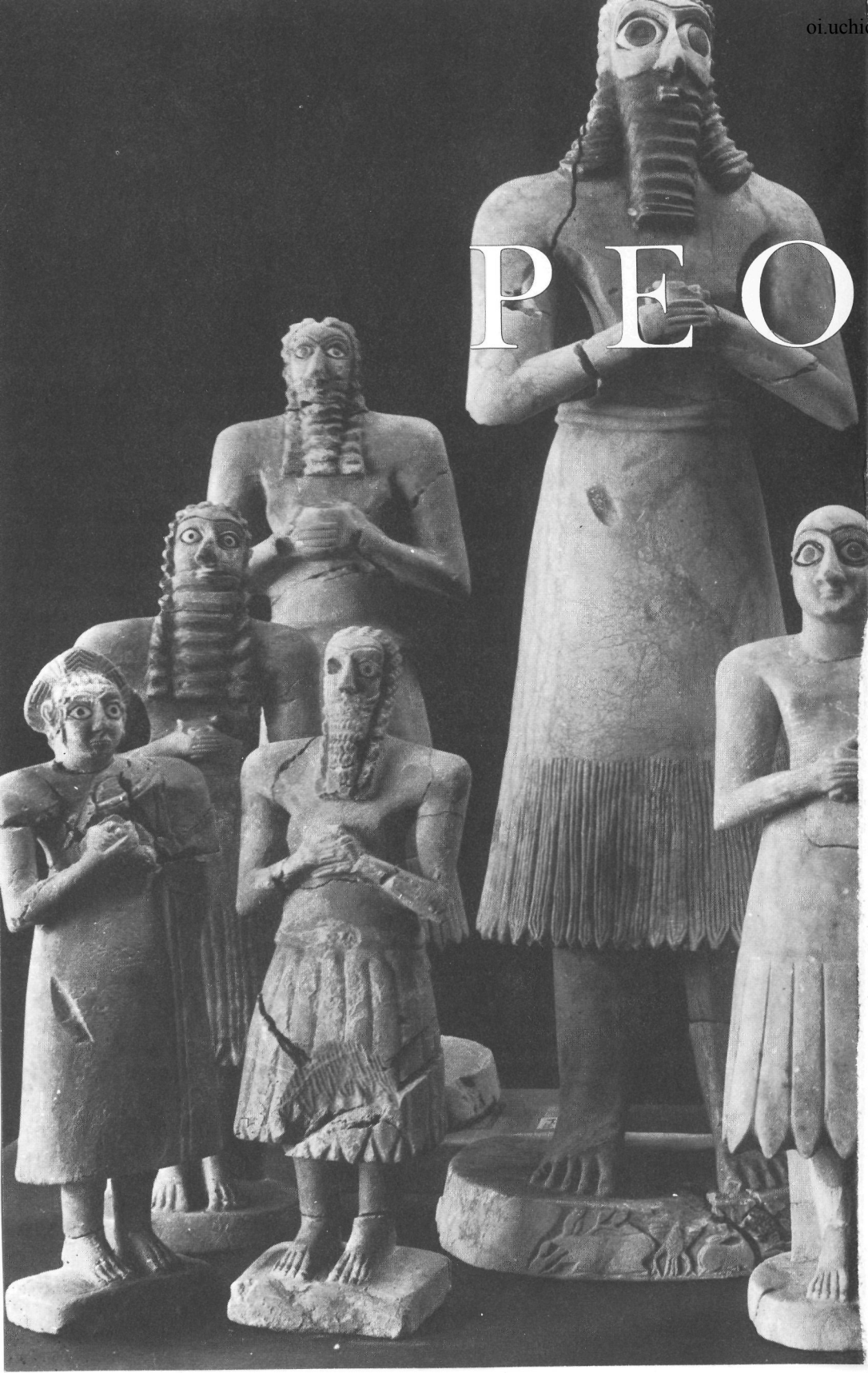
This past year the income from the Schwartz Endowment underwrote the special members' lecture by Robert Anderson (London), "Qasr Ibrim, Watchdog of the Nile." The endowment funds also paid salaries for assistants to prepare manuscript and illustrations for the Chogha Mish archeological publication and provided airfares and living expenses in connection with the reconnaissance for the Institute's projected participation in the salvage excavations behind the new Euphrates dam in Turkey.

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 Maurits N. van Loon, Ph.D., Associate
 Klaas R. Veenhof, Ph.D., Research Associate
 Joan G. Westenholz, Ph.D., Research Associate
 Robert M. Whiting, Ph.D., Research Associate (Instructor)
 Bruce B. Williams, Ph.D., James Henry Breasted Research Associate

<i>Other Voting Member</i>	Norman Golb, Ph.D., (Professor of Medieval Jewish Studies in the Department of Near Eastern Languages and Civilizations)
<i>Non-Academic Staff</i>	<p>Pamela Bruton, Editorial Assistant (Publications)</p> <p>Ronnie Burbank, Archivist and Reference Secretary (Museum)</p> <p>Mark Ciccarello, Epigrapher (Epigraphic Survey)</p> <p>Peter T. Daniels, Manuscript Editor (Assyrian Dictionary)</p> <p>Elena Druskis, Accountant</p> <p>Shirley Jean Fisher, Production Assistant (Publications)</p> <p>Anita Ghaemi, Registrar (Museum)</p> <p>Jean Grant, Senior Photo Technician</p> <p>Peggy Grant, Chairman of Volunteer Programs</p> <p>Barbara Hall, Conservator and Associate Curator (Museum)</p> <p>Paul G. Hoffman, Production Coordinator (Publications)</p> <p>Frank A. Howard, Artist (Epigraphic Survey)</p> <p>Bernard A. Lalor, Membership Secretary</p> <p>Claire D. Lincoln, Editorial Assistant (Assyrian Dictionary)</p> <p>Jean Luther, Managing Editor (Publications)</p> <p>Ruth Marcanti, Manager of the Suq (on leave of absence)</p> <p>Georgianna Maynard, Acting Manager of the Suq</p> <p>David Nasgowitz, Museum Office Manager and Assistant Curator</p> <p>Thad Rasche, Photographer (Epigraphic Survey)</p> <p>Ann Roth, Apprentice Epigrapher (Epigraphic Survey)</p> <p>Edythe G. Seltzer, Typist (Assyrian Dictionary)</p> <p>Myrna Simon, Museum Office Secretary</p> <p>Mark J. Smith, Project Assistant (Demotic Dictionary)</p> <p>Susan Smith, Administrative Secretary</p> <p>Heather Taylor, Manuscript Editor (Publications)</p> <p>Raymond D. Tindel, Museum Preparator</p> <p>Honorio R. Torres, Associate Museum Preparator</p> <p>Richard Turner, Artist (Epigraphic Survey)</p> <p>Evada Waller, Receptionist (Administrative Office)</p> <p>Franklin J. Yurco, Acting Research Archivist</p> <p>Richard Zettler, Research Archivist</p>

Oriental Institute Membership Fund for Unrestricted Purposes

*Condensed
Statement 1978/79*

Balance, July 1, 1978		\$ 8,036.28
INCOMES, July 1, 1978- June 30, 1979		
Members' Dues and Gifts	\$50,032.00	
Opening Lecture Dinner		
Receipts	1,957.75	
Members' Course Fees	2,890.00	
Other receipts	40.50	
TOTAL	\$54,920.25	\$54,920.25
		<hr/>
		\$62,956.53
EXPENDITURES, July 1, 1978-June 30, 1979		
Salaries	\$20,342.26	
Publications: Annual Report, <i>News &</i> <i>Notes</i> , etc.	14,294.97	
Publicity & Promotion	2,431.72	
Opening Lecture, Dinner & Reception	5,661.60	
Lecture Program	2,993.41	
Members' Courses	2,865.87	
Postage	8,116.45	
Office, Supplies & Equipment and Operational Expenses	3,259.91	
TOTAL	\$59,906.19	\$59,906.19
		<hr/>
BALANCE, June 30, 1979		3,050.34

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