

# **Henry N. Michael papers**

**0069**

**Finding aid prepared by Beth Cackowski.**

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Last updated on March 09, 2017.

University of Pennsylvania, Penn Museum Archives

2010

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## Summary Information

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<b>Repository</b>	University of Pennsylvania: Penn Museum Archives
<b>Creator</b>	Michael, Henry N. , PhD, 1913-2006
<b>Title</b>	Henry N. Michael papers
<b>Call number</b>	0069
<b>Date [inclusive]</b>	1938-2004
<b>Extent</b>	6 cubic feet (4 records storage cartons of papers, 1 records storage carton of index cards and 1 records storage carton of visual materials)
<b>Language</b>	English
<b>Language of Materials note</b>	Most of the documents in this series are in English, however since Henry Michael was a translator and fluent in Russian, the collection also contains many documents in Russian, mostly correspondence.
<b>Abstract</b>	Henry N. Michael was an anthropologist and geographer whose research on growth rings in ancient bristlecone pine trees allowed him to develop Carbon 14 calibration, or “correcting scale.” This scale helped to resolve problems in radiocarbon dating in archaeology. Dr. Michael also published a number of works translated from Russian on various aspects of Arctic archaeology and ethnography, along with folklore of Arctic people. Holdings include research and field notes on his trips to the White Mountains in California to collect bristlecone pine samples, testing of wood samples at the Penn Museum Radiocarbon Lab, and notes and drafts of publications and translations.

## Biography/History

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Following his birth in Pittsburgh on July 14, 1913, Henry Michael's family moved to Prague where he lived until returning to Pennsylvania in the early 1930s. In the 1940s he served as First Lieutenant in the U.S. Army during World War II. He received his Bachelor's degree (1948), Master's degree (1951), and PhD (1954) from the University of Pennsylvania. He taught briefly at Penn but spent the bulk of his academic career as a professor in the Geography Department at Temple University, from 1959 through 1980. He served as Head of Temple's Geography department from 1965 through 1973. He retired from Temple in 1980, but continued his work through the University of Pennsylvania Museum. In 1984 he became a Senior Fellow at the Museum Applied Science Center for Archaeology (MASCA).

Dr. Michael is most well known for his research on ancient bristlecone pine trees in California with his research partner, Elizabeth K. Ralph, also of the Penn Museum. The California tree ring research was a collaborative project between MASCA, the University of Arizona's Tree Ring Lab, and the University of California at San Diego. By studying the growth rings in the ancient pine trees, Dr. Michael and Dr. Ralph developed a calibrating or "correcting scale" to help resolve problems in radiocarbon dating in archaeology. This research led to the re-dating of many archaeological sites, and served to discredit the theory that Northern European civilizations must have derived from Greece or Egypt. The master chronology extended C-14 dating far beyond 5,000 years by adding samples from preserved trees to reach back 10,000 years from the present. In the early 1990's Dr. Michael handed over responsibility for further collection of samples to the University of Arizona.

Always fascinated with the people of Arctic and Sub-Arctic regions, Henry Michael also published extensively on various aspects of the archaeology and ethnography of Siberia and the Arctic. From 1959 to 1974 he served as Director and Editor of the series, "Anthropology of the North: Translations from Russian Sources". Dr. Michael also collaborated with Alexander Dolitsky, Director of the Alaska-Siberia Research Center, to translate and publish legends of indigenous people in the Kamchatka peninsula and along the Bering Strait.

In 2000, the University Museum awarded Dr. Michael the Director's Award established by the University of Pennsylvania Museum to honor exceptional volunteer achievement. Henry Michael died on February 19, 2006. He was survived by his wife, Ida (Nemez) Michael, daughter Shelley Susan, and sons Andrew Michael and Richard Michael.

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## Scope and Contents

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The papers of Henry N. Michael consist of 6 cubic feet of biographical information, correspondence, field notes, research and lab work, index cards containing records of wood samples, notes and drafts of publications and presentations, and documentation from his work with the Arctic Institute of North America (A.I.N.A.) and the Museum Applied Science Center for Archaeology (M.A.S.C.A.). The collection also contains photographs, negatives and slides of bristlecone pine trees, tree-ring sampling,

and archaeological field sites. Dendrochronological charts are also a part of the collection.

The records did not possess a clear or significant original order. Sources of the collection materials included Dr. Michael's daughter, Shelley Susan Michael, and the University of Pennsylvania Museum. The papers have been divided into seven series: Personal Materials, Correspondence, Research, Arctic Institute of North America (AINA), Museum Applied Science Center for Archaeology (MASCA), Publications, Conferences, and Visual Materials.

Although primarily composed of research and publication materials, there is some overlap between his personal and professional papers. Henry Michael was a man who was very generous with his time. There are many examples in the collection of his assisting the professional advancement of students and colleagues by recommending them to institutions or acting as a personal reference. He also edited papers that were sent to him for review. Dr. Michael maintained connections with Russian anthropologists during the Cold War, helping to translate and publish their work. He also participated in the North American Archaeologists protest in 1986 of the ban on South African attendees to the 11th International Congress of the International Union of Pre- and Proto-Historic Sciences (IUPPS) held in Southampton, England while South Africa was under apartheid.

The personal records in the collection span the years 1938-1953. The series contains Henry Michael's military records from 1943-1945 and letters of application to the CIA from 1953. Also included are school papers from 1951-1953, and one undated paper. Military and school papers are arranged chronologically.

The correspondence spans from 1962 through 2003. This series contains letters between Henry Michael and publishers, translators, colleagues, researchers and students. Included is significant correspondence from him as a MASCA fellow and editor of the MASCA newsletter, and letters with publishers and colleagues about translation work and setting up field work. The correspondence is arranged alphabetically by last name or agency. Unidentified correspondence is in a folder at the beginning of the series.

The research and field work papers span from 1952 through 1995. This series contains notes and data from various projects, including his field work with California sequoias and bristlecone pines (1959-1994); alluvial fans in Inyo National Forest, California; wood beams from the site of Gordion, Turkey (1963-2001); radiocarbon lab work and dendrochronology samples (1960-1990); paleomagnetism (1968); cellulose extraction (1969); Carbon-14 correction factors (1969); sampling of Egyptian tombs (1969-1974); testing a funerary boat of Sesostris III in Egypt (1970); radiocarbon chronology in NW Iran (1970,1989); thermoluminescence (1969-1973); dosimetry experiment in Egypt (1971-73); sampling of wood from the U.S.S. Constitution (1981); and Ban Chiang, Thailand C-14 dates (1995). Also includes index cards of records of wood samples (1962-1990, some undated) and dendrochronological charts. There are three master charts of tree-ring dates, each with the date of the period represented in the data and the scale of the work. In addition there are forty-nine additional charts of various sizes. All the charts are stored rolled. Research and field work is arranged chronologically, except the dendrochronological charts, which are housed in a separate record storage container.

Materials regarding Dr. Michael's participation in the Arctic Institute of North America (AINA) spans the years 1960-1987. This series contains general correspondence (1960-1987), correspondence regarding the Russian translation series (1961-1973), and materials pertaining to the publication committee (1966-1970). Folders in this series are arranged chronologically.

The large series that comprises Henry Michael's time as senior fellow of the University of Pennsylvania's Museum Applied Science Center for Archaeology (MASCA) spans the years 1960-1982. This series contains National Science Foundation proposals (1960-1982), correspondence and reports (1964-1977), MASCA proposal background materials (1976-1978), C-14 and dendrochronology outlines (1986). NSF Proposals include: Research and Development in New Techniques for Archaeology (1960); Development of Chronometric Center (1961); C-14 Measurements of Known Age Samples (1962); Completion of First Turkish Tree-Ring Study (1962); Research in the History and Chronology of Metals (1963); Study of

Remnant Magnetic Measurements (1964); Training Program in Metallurgy and Archaeology (1964); C-14 Measurements of Known Age Samples (1964); C-14 Measurements of Known Age Samples and Experiments with Thermoluminescence for C-14 Detection (1968); Dendrochronology of Bristlecone Pines (continuation of NSF grant GP-4892) (1970); C-14 Measurements of Known Age Samples (continuation of NSF grant GA-12572) (1970); Dating of Pottery and Faience by Thermoluminescence (1971); Museum Applied Science Center for Archaeology (MASCA) (1972); C-14 Measurements of Known Age Samples (continuation of NSF grant GA-12572) (1973); C-14 Measurements of Known Age Samples (continuation of NSF grant GA-12572) (1974); Museum Applied Science Center for Archaeology (MASCA) (1975); C-14 and C-13/C-12 Measurements of Known Age Samples and Laser Enrichment of C-14 (1977); Museum Applied Science Center for Archaeology (MASCA) (1977); C-14 Dating of Tree-Ring-Dated Bristlecone Pines and Search for Older Bristlecone Pines (1980); Search for Bristlecone Pine Wood from the Interval 20,000-10,000 C-14 Years B.P.; an Exercise in Applied Quarternary Stratigraphy (1980); Radiocarbon Dating of Archaeological Samples (1982). Folders are arranged chronologically by date of proposal.

The visual materials series is organized by type of material (mainly 35mm color slides), and thereunder cataloged individually in the photographic database. Most of the photographic material consists of slides from Michael's fieldwork in the southwestern United States, collecting wood samples. A group of ten prints collected by Michael while serving in World War II in Germany has been donated to the National World War II Museum in New Orleans, Louisiana.

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## Administrative Information

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University of Pennsylvania, Penn Museum Archives

2010

Finding aid prepared by Beth Cackowski.

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## Controlled Access Headings

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### CORPORATE NAME(S)

- University of Pennsylvania. Museum Applied Science Center for Archaeology.

### FORM/GENRE(S)

- Manuscripts for publication

**GEOGRAPHIC NAME(S)**

- Alaska
- Egypt
- Gordion (Extinct city)

**PERSONAL NAME(S)**

- Michael, Henry N. , PhD, 1913-2006
- Ralph, Elizabeth K., 1911-2000

**SUBJECT(S)**

- Anthropology
- Bristlecone pines
- International Research and Exchange Board (IREX)
- Physical anthropology
- University of Pennsylvania MASCA

## Collection Inventory

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### PERSONAL MATERIALS, 1938-1953.

#### Series Description

The personal records in the collection span the years 1938-1953. The series contains Henry Michael's military records from 1943–1945 and letters of application to the C.I.A. from 1953. Also included are school papers from 1951-1953, and one without a date. Military and school papers are arranged chronologically.

	Box
Military 1943-1945.	1
School papers 1951-1953.	1
Central Intelligence Agency 1953.	1
Russia Report.	1

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### CORRESPONDENCE, 1957-2004.

#### Series Description

The correspondence spans from 1962 through 2003. This series contains letters between Henry Michael and publishers, translators, colleagues, researchers and students. Included is significant correspondence from him as a MASCA fellow and editor of the MASCA newsletter, and letters with publishers and colleagues about translation work and setting up field work. The correspondence is arranged alphabetically by last name or agency. Unidentified correspondence is in a folder at the beginning of the series.



	Box
Miscellaneous Correspondence, Unidentified, 1982-1988.	1
A general, 1962-1993.	1
Ackerman, Robert E., 1980-1984.	1
Aitken, Martin, 1987.	1
Alaska, 1962-1997.	1
American Council of Learned Societies, 1969.	1
American Scientist, 1973-1980.	1
Anderson, Douglas R., 1968-1993.	1
Anderson, Paul R., 1963-1967.	1
Archaeology magazine, 2000-2001.	1
Arctic Anthropology, 1978-1992.	1
Arutyunov, Sergey, 1982-1992.	1
B general, 1969-2001.	1
Bannister, Bryant, 1960-1973. 01 Linear feet.	1
Barnard, Noel, 1979-1981. 01 Linear feet.	1
Barnes, Steve, 1975-1978. 01 Linear feet.	1
Bebrich, Carl A., 1976. 01 Linear feet.	1
Bentley, Scott J., 1993. 01 Linear feet.	1

BioScience, 1976. 01 Linear feet.	1
Bird, Christopher, 1960. 01 Linear feet.	1
Black, Lydia T., 1977. 01 Linear feet.	1
Bromley, Yulien V., 1981-1986. 01 Linear feet.	1
Bucha, Vaclav, 1967-1980.	1
Burleigh, Richard, 1971-1973. 01 Linear feet.	1
C general, 1964-1997. 01 Linear feet.	1
Cadogen, Gerald, 1971-1974. 01 Linear feet.	1
Caldwell, George Y., 1971. 01 Linear feet.	1
Carpenter, Edmund S., 1983-2004. 01 Linear feet.	1
Chernetsov, Valery N., 1963-1970. 01 Linear feet.	1
Clark, R. Malcolm, 1974-1980. 01 Linear feet.	1
Clay, John, 1991-1992. 01 Linear feet.	1
Collins, Henry B., 1957-1964. 01 Linear feet.	1
D general, 1969-1995. 01 Linear feet.	1
Damon, Paul E., 1972-1982. 01 Linear feet.	1
Dolgikh, Boris O., 1962-1971. 01 Linear feet.	1
Dolitsky, Alexander B., 1983-2003. 01 Linear feet.	1
Dolukhanov, Paul M., 1980-1981. 01 Linear feet.	1

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Donahue, Douglas J., 1990-1993. 01 Linear feet.	1
Dunn, Stephen P., 1960-1976. 01 Linear feet.	1
Dyson, Robert, 1961-1996. 01 Linear feet.	1
E general, 1967-1996. 01 Linear feet.	1
Ehrich, Robert, 1988. 01 Linear feet.	1
F general, 1962-2002. 01 Linear feet.	1
Faylor, Robert C., 1960-1964. 01 Linear feet.	1
Ferguson, Wesley, 1967-1986. 01 Linear feet.	1
Foundation for Studies of Modern Science, 1969-1977. 01 Linear feet.	1
FOSMOS - Legal Correspondence, 1973-1974.	1
Frenkley, Natalie A., 1960-1964. 01 Linear feet.	1
G general, 1965-2003. 01 Linear feet.	2
Gaskill, Gordon, 1968. 01 Linear feet.	2
Griffin, James B., 1962-1966. 01 Linear feet.	2
Gurvich, I. S., 1983-1984. 01 Linear feet.	2
H general, 1962-1996. 01 Cubic feet.	2
Halberg, Franz, 2001-2003. 01 Cubic feet.	2
Hills, Gordon H., 1985-1990. 01 Cubic feet.	2
Honea, Kenneth H., 1983. 01 Cubic feet.	2

Howell, Carol J., 1960-1962. 01 Cubic feet.	2
Hui-yen, Chow, 1973-1974. 01 Cubic feet.	2
J general, 1967-2001. 01 Cubic feet.	2
Jennings, Jesse D., 1960. 01 Cubic feet.	2
Johnson, LeRoy, 1969. 01 Cubic feet.	2
Jordan, Richard H., 1987-1990. 01 Cubic feet.	2
K general, 1963-2003. 01 Cubic feet.	2
Kaplan, Susan, 1984-1986. 01 Cubic feet.	2
Keil, JoEllen J., 1992-1993. 01 Cubic feet.	2
Kocharov, G. E., 1968-1969. 01 Cubic feet.	2
Kraus, David, 1966-1989. 01 Cubic feet.	2
Krupnik, Igor, 1983-2004. 01 Cubic feet.	2
Kushnareva, K. Kh., 1984-1999. 01 Cubic feet.	2
Kuzmina, Ludmila Pavlovna, 1984-1985. 01 Cubic feet.	2
L general, 1954-1997. 01 Cubic feet.	2
La Marche, Valmore C., 1966-1974. 01 Cubic feet.	2
Lamb, Hubert H., 1966-1971. 01 Cubic feet.	2
Levin, M.G., 1961-1963. 01 Cubic feet.	2
Lewis, D.J., 1973. 01 Cubic feet.	2

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Libby, Dorothy, 1960-1964. 01 Cubic feet.	2
Libby, Willard and Leona.	2
Link, F., 1967. 01 Cubic feet.	2
Loder, Dorothy M., 1961. 01 Cubic feet.	2
M general, 1957-2002. 01 Cubic feet.	2
Malmstrom, Vincent H., 1973-1981. 01 Cubic feet.	2
Masson, V.M., 1982-1988. 01 Cubic feet.	2
McGill University Press, 1966-1970. 01 Cubic feet.	2
McGinnies, W.G., 1960-1969. 01 Cubic feet.	2
McGraw-Hill, 1974-1975. 01 Cubic feet.	2
M.I.T. Press, 1965-1974. 01 Cubic feet.	2
N general, 1967-2000. 01 Cubic feet.	2
National Park Service, 1981-1995 (Bulk, 1981) . 01 Cubic feet.	2
Neustrupny, Evzen, 1970-1975. 01 Cubic feet.	2
O general, 1966-1984. 01 Cubic feet.	2
Olsson, Ingrid U., 1970-1973. 01 Cubic feet.	2
Oschinsky, Lawrence, 1962-1963. 01 Cubic feet.	2
P general, 1965-1990. 01 Cubic feet.	2
Penn Museum, misc., 1987-1991. 01 Cubic feet.	2

Peregrine, Peter N., 1996-1997. 01 Cubic feet.	2
R general, 1971-1999. 01 Cubic feet.	2
Rainey, Froelich, 1965-1973. 01 Cubic feet.	2
Raven's Journey, 1987. 01 Cubic feet.	2
Rhyne, George N., 1993. 01 Cubic feet.	2
Rich, Simon B., 1975. 01 Cubic feet.	2
Riecken, Henry W., 1969. 01 Cubic feet.	2
Rosenau, Myra, 1972. 01 Cubic feet.	2
Roosevelt, Anna, 1989. 01 Cubic feet.	2
Rudenko, S.I., 1960-1964. 01 Cubic feet.	2
S general, 1960-2001. 01 Cubic feet.	2
SCIENCE, 1967. 01 Cubic feet.	2
Schenck, Helen, 1995-2001. 01 Cubic feet.	2
Schove, D.J., 1960-1984. 01 Cubic feet.	2
Shur, L.A., 1976. 01 Cubic feet.	2
Sokolova, Zoya, 1987-1988. 01 Cubic feet.	2
Stanford Research Institute, 1975-1977. 01 Cubic feet.	2
Seuss, Hans, 1966-1975. 01 Cubic feet.	2
T general, 1961-1994. 01 Cubic feet.	2

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Thermoluminescence, 1969-1971. 01 Cubic feet.	2
Tolstov, S.P., 1962-1964. 01 Cubic feet.	2
Tolstoy, Paul, 1960-1969. 01 Cubic feet.	2
Tom Stacey, Ltd., 1973-1983. 01 Cubic feet.	2
Tremaine, Marie, 1964-1967. 01 Cubic feet.	2
University of Illinois Press, 1977-1989.	2
University of Toronto Press, 1960-1984. 01 Cubic feet.	2
V general, 1983-1996. 01 Cubic feet.	2
Van Loon, Maurits, 1970-1972. 01 Cubic feet.	2
Vanstone, James W., 1972-1997.	2
Vinding, Jorgen P., 1967-1968. 01 Cubic feet.	2
Vitaliano, Charles, 1971-1974. 01 Cubic feet.	2
W general, 1969-1995. 01 Cubic feet.	2
Weigel, H., 1974-1975. 01 Cubic feet.	2
Weiss, Peg, 1987-1988. 01 Cubic feet.	2
Y general, 1983-1991. 01 Cubic feet.	2
Zimmit, W.S., 1977. 01 Cubic feet.	2

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## RESEARCH, 1952-1995.

### Series Description

The research and field work papers span from 1952 through 1995. This series contains notes and data from various projects, including his field work with California sequoias and bristlecone pines (1959-1994); alluvial fans in Inyo National Forest, California; wood beams from the site of Gordion, Turkey (1963-2001); radiocarbon lab work and dendrochronology samples (1960-1990); paleomagnetism (1968); cellulose extraction (1969); correction factors (1969); sampling of Egyptian tombs (1969-1974); testing on a plank from a funerary boat of Sesostris III in Egypt (1970); radiocarbon chronology in NW Iran (1970,1989); thermoluminescence (1969-1973); dosimetry experiment in Egypt (1971-73); sampling of wood from the U.S.S. Constitution (1981); and Ban Chiang, Thailand C-14 dates (1995). Also includes index cards of records of wood samples (1962-1990, some undated). Research and field work is arranged chronologically.

	Box
Bering Strait, Alaska (A. Ricciardelli) 1952.	2
Records of Wood Samples, 1957-1980.	3
1959 MASCA Curve.	3
Sequoia National Park 1960-1961.	3
1960 C-14 Worksheets for Correlations.	3
Samples of Known-Age Wood, arranged serially 1960-1965.	file box
Samples of Known-Age Wood by Category 1962-1973.	file box
Samples of Known-Age Wood by genus and locality 1962-1978.	file box
Gordion, Turkey 1963-2001.	3
Radiocarbon Dating 1963-1964.	3
Egypt 1964-1965, 1964-1965.	3



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Bristlecone Pine Dates 1965-1966.	3
Short-Lived Tree 1967-1968.	3
Paleomagnetism 1968.	3
Dendrochronology, status of samples 1968-1969.	3
Radiocarbon Dates of <i>P. aristata</i> and <i>S. gigantea</i> 1969-1974.	3
Cellulose Extraction 1969.	3
Correction Factor 1969.	3
Egypt samples 1969-1973.	3
Egypt Sesostris III Funerary Boat 1970.	3
Northwest Iran Radiocarbon Chronology 1970.	3
Uppsala C-14 Project 1970.	3
Akrotiri Data TL & C-14 Samples 1971-1972.	3
Greece, 1968-1972 (Bulk, 1971) .	3
Egypt C-14 Project 1971-1974.	3
Thermoluminescence Project 1969-1973.	3
Dosimetry Calcium Sulfate Experiment 1971-1973.	3
Mainwaring Report, revised C.F. 1973.	3
Arad, Israel C-14 1974.	3
California Field Notes 1974.	3

Inyo National Forest 1974-1975.	3
Complete data List of Cards 1975.	3
Alluvial Fan Project 1975.	3
Alluvial Fans-TV and Film 1975-1976.	3
Alluvial Fans-Correspondence 1976.	3
Bristlecone Samples, C-14 results 1976.	3
California Dendrochronology 1977.	3
Alluvial Fans, White Mountains 1977.	3
C-14 Dating Tables 1977-1978.	3
C-14 Dates of Bristlecone Pine Samples 1978.	3
Voidokolia C-14 Sample Collection 1977-1980.	3
Bishop White Mountains 1980 (1 of 10).	3
Bishop White Mountains 1981-1982 (2 of 10).	3
Bishop White Mountains 1982 (3 of 10).	3
Bishop White Mountains 1983 (4 of 10).	3
Bishop White Mountains 1984 (5 of 10).	3
Bishop White Mountains 1985 (6 of 10).	3
Bishop White Mountains 1986 (7 of 10).	3
Bishop White Mountains 1988-1989 (8 of 10).	3

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Bishop White Mountains 1990-1991 (9 of 10).	4
Bishop White Mountains 1992-1994 (10 of 10).	4
Thera, Greece 1980-1982.	3
U.S.S. Constitution 1981.	3
Lindbergh Grant Proposal 1981.	3
Radiocarbon Laboratory Evaluation 1982.	3
Hasanlu Calibration of Dates 1989.	3
Ban Chiang, Thailand C-14 Research 1995.	4
CRD-82 Calibration Tables n.d.	4
Climatic Changes, notes n.d.	4
Egypt and Greece, C-14 Tables and Notes n.d.	4

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**CONFERENCES, 1969-1991.**

**Series Description**

Notes and records from multiple carbon dating & anthropological/archaeological conferences around the world. Includes multiple IREX folders.

	Box
Nobel Symposium 12 (Uppsala, Sweden) 1969.	4
Michael & Ralph: N. 2. Paper Presented 1972.	5

Radiocarbon Dating Conference 1972 (1 of 2).	5
Radiocarbon Dating Conference 1976 (2 of 2).	5
Aegean Symposium 1976-1977.	5
Archaeometry Conference 1977.	5
U.S.-U.S.S.R. Symposium on the Peopling of North America (Washington, D.C.) 1977-1978.	5
Second International Thera Conference 1978.	5
Workshop on Calibration of the Radiocarbon Time Scale 1978-1979.	5
Eleventh International Radiocarbon Conference 1982.	5
Twelfth International Radiocarbon Conference 1984-1985.	5
White-Inyo and High Altitude Research Symposium 1985.	5
World Archaeological Conference (South Hampton & London) 1984-1986.	5
Fourteenth International Radiocarbon Conference (Tucson, AZ) 1991.	5
International Research and Exchanges Board 1975.	5
IREX 1976.	5
IREX - Moscow 1977.	5
IREX - Philadelphia 1977.	5
IREX - Europe 1978.	5
IREX - Correspondence 1978.	5

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IREX - Princeton 1979.	5
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IREX - Correspondence 1979.	5
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**TEMPLE UNIVERSITY, 1953-1979.**

**Series Description**

Mostly communication with other Temple Univ. faculty, some class papers from

	Box
Annual Faculty Reports, 1965-1979.	4

Applications for Research etc., 1953-1975.	4
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Miscellaneous, 1965-1979.	4
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**ARCTIC INSTITUTE OF NORTH AMERICA, 1960-1987.**

**Series Description**

Materials regarding Dr. Michael's participation in the Arctic Institute of North America (A.I.N.A.) spans the years of 1960-1987. This series contains general correspondence (1960-1987), correspondence regarding the Russian translation series (1961-1973), and materials pertaining to the publication committee (1966-1970). Folders in this series are arranged chronologically.

	Box
A.I.N.A. Correspondence, 1966-1970.	4

A.I.N.A. Publications Committee, 1966-1970.	4
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**MUSEUM APPLIED SCIENCE CENTER FOR ARCHAEOLOGY, 1960-1986 (BULK, 1960-1979) .****Series Description**

The large series that comprises Henry Michael's time as senior fellow of the University of Pennsylvania's Museum Applied Science Center for Archaeology (M.A.S.C.A.) spans the years 1960-1982. This series contains National Science Foundation proposals (1960-1982), correspondence and reports (1964-1977), M.A.S.C.A. proposal background materials (1976-1978), C-14 and Dendrochronology outlines (1986). NSF Proposals include: Research and Development in New Techniques for Archaeology (1960); Development of Chronometric Center (1961); C-14 Measurements of Known Age Samples (1962); Completion of First Turkish Tree-Ring Study (1962); Research in the History and Chronology of Metals (1963); Study of Remnant Magnetic Measurements (1964); Training Program in Metallurgy and Archaeology (1964); C-14 Measurements of Known Age Samples (1964); C-14 Measurements of Known Age Samples and Experiments with Thermoluminescence for C-14 Detection (1968); Dendrochronology of Bristlecone Pines (continuation of NSF grant GP-4892) (1970); C-14 Measurements of Known Age Samples (continuation of NSF grant GA-12572) (1970); Dating of Pottery and Faience by Thermoluminescence (1971); Museum Applied Science Center for Archaeology (M.A.S.C.A.) (1972); C-14 Measurements of Known Age Samples (continuation of NSF grant GA-12572) (1973); C-14 Measurements of Known Age Samples (continuation of NSF grant GA-12572) (1974); Museum Applied Science Center for Archaeology (M.A.S.C.A.) (1975); C-14 and C-13/C-12 Measurements of Known Age Samples and Laser Enrichment of C-14 (1977); Museum Applied Science Center for Archaeology (M.A.S.C.A.) (1977); C-14 Dating of Tree-Ring-Dated Bristlecone Pines and Search for Older Bristlecone Pines (1980); Search for Bristlecone Pine Wood from the Interval 20,000-10,000 C-14 Years B.P.; an Exercise in Applied Quarternary Stratigraphy (1980); Radiocarbon Dating of Archaeological Samples (1982). Folders are arranged chronologically by date of proposal.

Box

National Science Foundation (NSF) Proposals (1 of 14), 1960.

4

National Science Foundation (NSF) Proposals (2 of 14), 1961.

4

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National Science Foundation (NSF) Proposals (3 of 14), 1962.	4
National Science Foundation (NSF) Proposals (4 of 14), 1964.	4
National Science Foundation (NSF) Proposals (5 of 14), 1969.	4
National Science Foundation (NSF) Proposals (6 of 14), 1970.	4
National Science Foundation (NSF) Proposals (7 of 14), 1971.	4
National Science Foundation (NSF) Proposals (8 of 14), 1972.	4
National Science Foundation (NSF) Proposals (9 of 14), 1973.	4
National Science Foundation (NSF) Proposals (10 of 14), 1974.	4
National Science Foundation (NSF) Proposals (11 of 14), 1975.	4
National Science Foundation (NSF) Proposals (12 of 14), 1977.	4
National Science Foundation (NSF) Proposals (13 of 14), 1980.	4
National Science Foundation (NSF) Proposals (14 of 14), 1982.	4
MASCA Proposal, background materials, 1976-1978.	4
National Science Foundation (N.S.F.) correspondence and reports, 1963-1977.	4
C-14 and Dendro-Outlines of MASCA, 1986.	4

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## **PUBLICATIONS, 1954-1995.**

### **Series Description**

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Reviews of H. N. Michael's & others' publications. Several articles on carbon dating, archaeometry, and Arctic & Siberian anthropology.	Box
Reviews of Michael's publications, 1954-1995.	4
Reviews of edited publications, 1961-1975.	4
Reviews by Michael of others' publications, 1959-1993.	4
Radiocarbon article, 1968-1969.	4
Arctic Anthropology article, 1984.	4
Archaeometry articles, 1987-1988.	4
Neolithic Cultures of Siberia, 1992.	4

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**PHOTOGRAPHS.**

	Box
C-14 Dendrochronology Charts MASCA Correction Factors 1973.	5
C-14 Dendrochronology Charts: "Dating Techniques for the Archaeologist".	5
Bristlecone Pines (1 of 2).	5
Bristlecone Pines (2 of 2).	5
Aerial Photographs: White Mountains & Inyo Mountains, California 1973.	5
Alaska c. 1930's - Unknown photographer (1 of 2).	5



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Alaska c. 1930's - Unknown photographer (2 of 2).

5

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**CHARTS & DIAGRAMS.**

**Box**

Dendrochronological Charts.

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