

CURRICULUM VITAE

Name: KATHY DIANE SCHICK

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Present Positions:

Professor, Department of Anthropology and Cognitive Science Program, Indiana University
Co-Director, Stone Age Institute, Gosport, Indiana

Co-Director, CRAFT (Center for Research into the Anthropological Foundations of
Technology), Indiana University, Bloomington, Indiana
Adjunct Professor of Biology, Indiana University
Secretary/Treasurer, Friends of CRAFT, Inc. (research and education non-profit)
Fellow, American Association for the Advancement of Science

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Education:

Ph.D. (1984). University of California, Berkeley. Anthropology: Old World Prehistory program.
M.A. (1979). University of California, Berkeley. Anthropology.
Kent State University (1974-6). Masters Program, Anthropology.
B.A. (1974), Kent State University. Anthropology
Case-Western Reserve University (1967-8), Cleveland, Ohio, College of Arts and Sciences

Areas of Special Interest:

Old World prehistory, palaeoanthropology, evolution of technology, human adaptation,
primate studies, archaeological site formation, geoarchaeology, taphonomy,
zooarchaeology, hunter-gatherers, ethnoarchaeology, lithic technology, experimental
archaeology, invention and technology, history of archaeology; Areas: Africa, Europe, Asia.

Academic Positions:

- 2000- present. Professor, Anthropology Department, Indiana University.
- 1994-2000 Associate Professor, Anthropology Department, Indiana University.
- 1989-1993 Assistant Professor, Anthropology Department, Indiana University.
- 1986-1989 Visiting Professor, Anthropology Department, Indiana University, Bloomington.
- 1986 Visiting Professor, Anthropology Department, U.C. Berkeley. Old World Lithics Laboratory, co-taught with Prof. J. Desmond Clark.
- 1985 Visiting Professor, Anthropology Department, U.C. Berkeley, Summer Session. Introduction to Archaeology.
- 1985 Visiting Professor, Archaeology Department, University of Cape Town, Cape Town, South Africa. Course on experimental archaeology and approaches to early archaeological studies. Co-taught with Dr. Nicholas Toth).
- 1983 Teaching assistant, Physical Anthropology, University of California, Berkeley. Dr. Timothy White, Professor.
- 1982 Teaching assistant, Archaeology. University of California, Berkeley. Dr. Glynn Isaac, Professor.
- 1982 Teaching assistant, Physical Anthropology. University of California, Berkeley. Dr. Timothy White, Professor.
- 1981 Teaching assistant, Archaeology. University of California, Berkeley. Dr. Glynn Isaac, Professor.
- 1978 Teaching assistant, Invention and Technology. University of California, Berkeley. Dr. J. Desmond Clark, Professor.
- 1975-1976 Anthropology instructor, Cuyahoga College, Cleveland, Ohio. Courses: Introduction to Archaeology; Peoples and Cultures of the World.

Books:

- 1993 *Making Silent Stones Speak: Human Evolution and the Dawn of Technology*. New York: Simon and Schuster. By K. D. Schick and N. Toth.
- 1986 *Stone Age Sites in the Making: Experiments in the Formation and Transformation of Archaeological Occurrences*. Oxford: BAR International Series, 319. By K.D. Schick.

Books (edited):

- 2010 *The Human Brain Evolving: Papers in Honor of Ralph L. Holloway*. Douglas Broadfield, Michael Yuan, Kathy Schick, and Nicholas Toth, Eds. Stone Age Institute Publication Series, Number 4. Gosport, Indiana: Stone Age Institute Press.
- 2009 *The Cutting Edge: New Approaches to the Archaeology of Human Origins*. Kathy Schick and Nicholas Toth, Eds. Gosport, Indiana: Stone Age Institute Press.
- 2007 *Breathing Life into Fossils: Taphonomic Studies in Honor of C.K. "Bob" Brain*. Travis Pickering, Kathy Schick, and Nicholas Toth, Eds. Gosport, Indiana: Stone Age Institute Press. 296 pp.
- 2006 *The Oldowan: Case Studies into the Earliest Stone Age*. Nicholas Toth and Kathy Schick, Eds. Gosport, Indiana: Stone Age Institute Press. 338 pp.
- 2000 *The Acheulean and the Plio-Pleistocene Deposits of the Middle Awash Valley, Ethiopia*. Jean de Heinzelin, J. Desmond Clark, Kathy Schick, and W. Henry Gilbert, Eds. Tervuren, Belgium: Musée Royale de l'Afrique Centrale, Annales – Sciences Géologiques. Volume 104.

Articles and Chapters:

- In press "Why the Acheulean? Experimental studies of the manufacture and function of Acheulean tools." In (Henry de Lumley, Ed.), *Les Cultures a Bifaces du Pleistocene Inferieur et Moyen dans la Monde*. By Nicholas Toth and Kathy Schick.
- In press "Acheulean Industries of the Lower and Middle Pleistocene, Middle Awash, Ethiopia." In (Henry de Lumley, Ed.), *Les Cultures a Bifaces du Pleistocene Inferieur et Moyen dans la Monde*. By Kathy Schick and Nicholas Toth.
- In press "Factors affecting variability in Early Stone Age lithic assemblages: Personal observations from actualistic studies." In (David Pilbeam and Jeanne Sept, Eds.), *Paleoanthropological Studies in Honor of Glynn Isaac*. Cambridge, MA: American School of Prehistoric Research, Monographs in Archaeology and Paleoanthropology. By Nicholas Toth and Kathy Schick.
- In press "Origins and Evolution of Technology". In (David Begun, ed.) *Companion to Paleoanthropology*. Hoboken: Wiley-Blackwell. By Kathy Schick and Nicholas Toth.
- 2010 "Hominin brain reorganization, technological change, and cognitive complexity." In (Douglas Broadfield, Michael Yuan, Kathy Schick, and Nicholas Toth, Eds.), *The Human Brain Evolving: Papers in Honor of Ralph L. Holloway*. Gosport, Indiana: Stone Age Institute Press. Pp. 293-312. By Nicholas Toth and Kathy Schick.
- 2009 "The Importance of Actualistic Studies in Early Stone Age Research." In (K. Schick and N. Toth, Eds.), *The Cutting Edge: New Approaches to the Archaeology of Human Origins*. Gosport, Indiana: Stone Age Institute Press. By Nicholas Toth and Kathy Schick.
- 2009 "The Oldowan: The Tool Making of Early Hominins and Chimpanzees Compared." *Annual Review of Anthropology* **38**:289-305. By Nicholas Toth and Kathy Schick.

- 2009 “The evolution and cultural transmission of percussive technology: Integrating evidence from palaeoanthropology and primatology.” *Journal of Human Evolution*, 16 pp. By Andrew Whiten, Kathy Schick, and Nicholas Toth.
- 2009 “Neural correlates of Early Stone Age toolmaking: technology, language and cognition in human evolution.” In (C. Renfrew, C. Frith, and L Malafouris, Eds.), *The Sapient Mind: Archaeology Meets Neuroscience*. Pp. 1-19. By Dietrich Stout, Nicholas Toth, Kathy Schick, and Thierry Chaminade.
- 2009 “Early hominids.” In (B. Cunliffe, C. Gosden, and R.A. Joyce, Eds.): *The Oxford Handbook of Archaeology*. Oxford: Oxford University Press. Pp. 254-289. By Nicholas Toth and Kathy Schick.
- 2009 “African Origins.” In (C. Scarre, Ed.), *The Human Past: World Prehistory and the Development of Human Societies*, Second Edition. London: Thames & Hudson. Pp. 46-83. By Nicholas Toth and Kathy Schick.
- 2009 “The ‘Little Bang’: The Origins and Adaptive Significance of Human Stone Toolmaking.” In (C. Genet, R. Genet, B. Swimme, L. Palmer, and L. Gibler, Eds.), *The Evolutionary Epic: Science’s Story and Humanity’s Response*. Santa Margarita, California: The Collins Foundation Press. Pp. 39-60.
- 2008 “Neural correlates of Early Stone Age toolmaking: technology, language and cognition in human evolution.” *Philosophical Transactions of the Royal Society of London B*: 1-11. By Dietrich Stout, Nicholas Toth, Kathy Schick, and Thierry Chaminade.
- 2007 “Overview of Paleolithic Archeology.” In (W. Henke and I. Tattersall, Eds.): *Handbook of Paleoanthropology: Volume 3, Phylogeny of Hominids*. New York: Springer. Pp. 1943-1963. By Nicholas Toth and Kathy Schick.
- 2007 “A Taphonomic Analysis of an Excavated Striped Hyena Den from the Eastern Desert of Jordan.” In (Travis Pickering, Kathy Schick, and Nicholas Toth, Eds.): *Breathing Life into Fossils: Taphonomic Studies in Honor of C.K. “Bob” Brain*. Gosport, Indiana: Stone Age Institute Press. Pp. 75-106. By Kathy Schick, Nicholas Toth, Thomas Gehling, and Travis Pickering.
- 2006 “An Overview of the Oldowan Industrial Complex: The Sites and the Nature of Their Evidence.” In (Nicholas Toth and Kathy Schick, Eds.): *The Oldowan: Case Studies into the Earliest Stone Age*. Gosport, Indiana: Stone Age Institute Press. Pp. 3-42. By Kathy Schick and Nicholas Toth.
- 2006 “A Comparative Study of the Stone Tool-Making Skills of *Pan*, *Australopithecus*, and *Homo sapiens*.” In (Nicholas Toth and Kathy Schick, Eds.), *The Oldowan: Case Studies into the Earliest Stone Age*. Gosport, Indiana: Stone Age Institute Press. Pp. 155-222. By Nicholas Toth, Kathy Schick, and Sileshi Semaw.
- 2006 “Comparing the Neural Foundations of Oldowan and Acheulean Toolmaking: A Pilot Study Using Positron Emission Tomography (PET).” In (Nicholas Toth and Kathy Schick, Eds.), *The Oldowan: Case Studies into the Earliest Stone Age*. Gosport, Indiana: Stone Age Institute Press. Pp. 321-331. By Dietrich Stout, Nicholas Toth, and Kathy

Schick.

- 2006 "Overview of Palaeolithic Archaeology." In (W. Henke and I. Tattersall, Eds.), *Handbook of Paleoanthropology, Volume 3: Phylogeny of Hominines*. Berlin: Springer Verlag. Pp. 1943-1963. By Nicholas Toth and Kathy Schick.
- 2006 "Kanzi Learns to Knap Stone Tools." In (David Washburn, Ed.): *Primate Perspectives on Behavior and Cognition*. Washington, D.C.: American Psychological Association. Pp. 279-291. By Sue Savage-Rumbaugh, Nicholas Toth, and Kathy Schick.
- 2005 "African Origins." In (C. Scarre, Ed.), *The Human Past: World Prehistory and the Development of Human Societies*. London: Thames and Hudson. Pp. 46-83. By Nicholas Toth and Kathy Schick.
- 2004 "Stone tool origins." In *McGraw-Hill Yearbook of Science & Technology 2004*. New York: McGraw-Hill. P. 339-342. By Nicholas Toth and Kathy Schick.
- 2004 "C.K. 'Bob' Brain and African Taphonomy." *Evolutionary Anthropology* 13:163-167. By T. Pickering, K. Schick, and N. Toth.
- 2003 "Biface Technological Development and Variability in the Acheulean Industrial Complex in the Middle Awash Region of the Afar Rift, Ethiopia." In (M. Soressi and H. Dibble, Eds.), *From Prehistoric Bifaces to Human Behavior: Multiple Approaches to the study of Bifacial Technologies*. Philadelphia: University of Pennsylvania Museum Press. Pp. 1-30. By Kathy Schick and J. Desmond Clark.
- 2003 "The Origins of the Genie: Human Technology in an Evolutionary Context." In (A. Lightman, D. Sarewitz, and C. Desser, Eds.), *Living with the Genie: Essays on Technology and the Quest for Human Mastery*. Washington: Island Press. Pp. 23-34. By Kathy Schick and Nicholas Toth.
- 2003 "Desmond Clark: 1916-2002." *American Anthropologist* **105**(3): 679-682. By Nicholas Toth and Kathy Schick.
- 2002 "Introduction." *J. Desmond Clark, An Archaeologist's Work in African Prehistory and Early Human Studies: Teamwork and Insight*. Berkeley: University of California. Pp. iv-viii. By Kathy Schick and Nicholas Toth.
- 2002 "A Technological Comparison of the Stone Tool-Making Capabilities of *Australopithecus*/early *Homo*, *Pan paniscus*, and *Homo sapiens*, and possible evolutionary implications." *Journal of Human Evolution* (Abstract) **42**(3):A36. By Nicholas Toth, Kathy Schick, and Sileshi Semaw.
- 2002 "Recent Discoveries from Gona, Afar, Ethiopia." *Journal of Human Evolution* (Abstract) **42**(3):A33. By Sileshi Semaw, Kathy Schick, Nicholas Toth, Scott Simpson, Jay Quade, Michael Rogers, Paul Renne, Dietrich Stout, and Manuel Dominguez-Rodrigo.
- 2001 "Paleoanthropology at the Millenium." In (T.D. Price and G. Feinman, Eds.): *Archaeology at the Millenium*. New York: Kluewer Academic/Plenum Publishers. Pp. 39-108. By Kathy Schick and Nicholas Toth.

- 2001 "An examination of Kalambo Falls Acheulean Site (B5) from a Geoarchaeological Perspective." In (J.D. Clark, Ed.): *Kalambo Falls Prehistoric Site, Volume 3*. Cambridge: Cambridge University Press. Pp. 463-480. By Kathy Schick.
- 2000 "Archaeology of the Eastern Middle Awash." In (J. de Heinzelin, J.D. Clark, K. Schick, and W.H. Gilbert, Eds): *The Acheulean and the Plio-Pleistocene Deposits of the Middle Awash Valley, Ethiopia*. Tervuren, Belgium: Musée Royale de l'Afrique Centrale. Pp. 51-121. By J. Desmond Clark and Kathy Schick.
- 2000 "Archaeology of the Western Middle Awash." In (J. de Heinzelin, J.D. Clark, K. Schick, and W.H. Gilbert, Eds): *The Acheulean and the Plio-Pleistocene Deposits of the Middle Awash Valley, Ethiopia*. Tervuren, Belgium: Musée Royale de l'Afrique Centrale. Pp. 123-181. By Kathy Schick and J. Desmond Clark.
- 2000 "Overview and Conclusion on the Middle Awash Acheulean." In (J. de Heinzelin, J.D. Clark, K. Schick, and W.H. Gilbert, Eds): *The Acheulean and the Plio-Pleistocene Deposits of the Middle Awash Valley, Ethiopia*. Tervuren, Belgium: Musée Royale de l'Afrique Centrale. Pp. 193-202. By J. Desmond Clark and Kathy Schick.
- 2000 "Stone Tool-Making and Brain Activation: Positron Emission Tomography (PET) Studies." *Journal of Archaeological Science* **27**:1215-1223. By Dietrich Stout, Nicholas Toth, Kathy Schick, Julie Stout, and Gary Hutchins.
- 2000 "Origin and development of tool-making behavior in Africa and Asia." *Human Evolution* **15**:151-158. By Kathy Schick and Nicholas Toth.
- 2000 Contributions to the *Encyclopedia of Human Evolution and Prehistory, 2nd edition*. Articles on: Ain Hanech, North Africa, Paleolithic Archaeology, Baton de Commandement, Biface, Bipolar Technique, Blade, Awl, Bone Tools, Bow and Arrow, Burin, Cleaver, Clothing, Core, Dawaitoli, Early Paleolithic, Early Stone Age, Eoliths, Fire, Flake, Flake Blade, Handaxe, Harpoon, Lithic Use-Wear, Levallois, Paleolithic Lifeways, Pick, Prepared-Core, Raw Materials, Retouch, Sagaie, St. Acheul, Scraper, Sidi Abderrahman, Spear, Split-base bone point, Stone Tool-Making, Wonderwerk. New York: Garland Publishing. By Nicholas Toth and Kathy Schick.
- 1999 "The Lithic Industry: The Archaeological Evidence for the Human Capacity for Culture." In (D. Johanson and G. Ligabue, Eds.), *Ecce Homo: Writings in honour of Third-Millennium Man*. Venice: Casa Editrice Electra. By Nicholas Toth and Kathy Schick.
- 1999 "Continuing Investigations into the Stone Tool-Making Capabilities of a Bonobo (*Pan paniscus*)." *Journal of Archaeological Science* **26**:821-832. By Kathy Schick, Nicholas Toth, Gary Garufi, Sue Savage-Rumbaugh, Rose Sevcik, and Duane Rumbaugh.
- 1998 "A Comparative Perspective on Palaeolithic Cultural Patterns." In (T. Adazawa, K. Aoki, and O. Bar-Yosef, Eds.): *Neanderthals and Modern Humans in Western Asia*. New York: Plenum Press. Pp. 449-460. By Kathy D. Schick.
- 1998 "EMG Study of Hand Muscle Recruitment During Hard-Hammer Percussion Manufacture of Oldowan Tools." *American Journal of Physical Anthropology* **105**:315-332. By M.W. Marzke, N. Toth, K. Schick, S. Reece, B. Steinburg, K. Hunt, R.C. Linscheid, and K'N An.

- 1997 "An Experimental Investigation into the Nature of Limestone 'Spheroids' in the Early Palaeolithic: An Experimental Investigation." *Journal of Archaeological Science* **24**:701-713. By Mohamed Sahnouni, Kathy Schick, and Nicholas Toth."Determining Stone Tool Use: Chemical and Morphological Analyses of Residues on Experimentally Manufactured Stone Tools." *Journal of Archaeological Science* **24**: 245-250. By A.H. Jahren, N. Toth, K. Schick, J.D. Clark, and R.G. Amundson.
- 1997 "Experimental Studies of Site Formation Processes." In (G. Isaac and B. Isaac, Eds.), *Koobi Fora Research Project, Vol. 5: Plio-Pleistocene Archaeology*. Oxford: Clarendon Press. Pp. 244-256. By Kathy D. Schick.
- 1997 "Applications of the Observations and Experiments to the Koobi Fora Cases. In Chapter 5, "Site Formation Processes" in *Koobi Fora Research Project, Vol. 5: Plio-Pleistocene Archaeology*, ed. by Glynn Ll. Isaac, assisted by Barbara Isaac. Oxford: Clarendon Press. Pp. 256-261. By Glynn Ll. Isaac, John W.K. Harris, Zefe M. Kaufulu, and Kathy Schick.
- 1997 Articles, (B. Fagan, Ed.): *Oxford Companion to Archaeology*. "Louis and Mary Leakey," "The Archaeology of Human Origins," "Primitive Technology". New York: Oxford University Press. By Nicholas Toth and Kathy Schick.
- 1997 "Stone Age Tools." *Dragonfly* 2(2): 8-11. National Science Teachers Association.
- 1996 "Paleoindian Cave Dwellers in the Amazon: The Peopling of the Americas." *Science*: 272:373-384. By A.C. Roosevelt, M. Lima da Costa, C. Lopes Machado, M. Michab, N. Mercier, H. Valladas, J. Feathers, W. Barnett, M. Imazio da Silveira, A. Henderson, J. Sliva, B. Chernoff, D.S. Reese, J.A. Holman, N. Toth, K. Schick.
- 1996 "African Prehistory and Human Evolution." In *Egypt in Africa*, edited by Theodore Celenko. Indianapolis: Indianapolis Museum of Art in cooperation with Indiana University Press. Pp. 20-22. By Kathy Schick and Nicholas Toth.
- 1995 "Prehistoric Africa." In *Africa, 3rd Edition*, edited by Phyllis M. Martin and Patrick O'Meara. Bloomington, Indiana: Indiana University Press. Pp. 49-72.
- 1994 "African *Homo erectus*: Old Radiometric Ages and Young Oldowan Assemblages in the Middle Awash Valley, Ethiopia." *Science* 264:1904-1910. By J.D. Clark, J. de Heinzelin, K.D. Schick, W.K. Hart, T.D. White, G. Woldegabriel, R.C. Walter, G. Suwa, B. Asfaw, E. Vrba, and Y. H.-Selassie.
- 1994 "Study of Refitting of Stone Artifacts at Cenjiawan Site in 1986." *Journal of Chinese Antiquity* **3**:86-102. By Xie Fei, Kathy Schick, Nicholas Toth and J.Desmond Clark.
- 1994 "The Movius Line Reconsidered: Perspectives on the Earlier Palaeolithic of Eastern Asia." In (R. Corruccini and R. Ciochon, Eds.), *Integrative Paths to the Past: Palaeoanthropological Advances in Honor of F. Clark Howell*. Englewood Cliffs, New Jersey: Prentice-Hall. Pp. 569-596. By Kathy Schick.
- 1994 "Early Stone Age Technology in Africa: A Review and a Case Study into the Nature and Function of Spheroids and Subspheroids." In R. Coruccini and R. Ciochon (Eds.): *Integrative Paths to the Past: Palaeoanthropological Advances in Honor of F. Clark*

- Howell*. Englewood Cliffs, New Jersey: Prentice-Hall. Pp. 429-449. By K. Schick and N. Toth.
- 1993 "The Early Palaeolithic of China and Eastern Asia." *Journal of Evolutionary Anthropology* **2**:22-35. By Kathy Schick and Zhuan Dong.
- 1993 "ESR Dating Tooth Enamel from the Paleolithic Site at Longola, Zambia." *Applied Radiation and Isotopes* **44**:253-260. By B.A. Blackwell, H.P. Schwarcz, K. Schick, and N. Toth.
- 1993 "Pan the Tool-Maker: Investigations into the Stone Tool-Making and Tool-Using Capabilities of a Bonobo (*Pan paniscus*)." *Journal of Archaeological Science* **20**:81-91. By N. Toth, K. D. Schick, E.S. Savage-Rumbaugh, R.A. Sevcik, and D.M. Rumbaugh.
- 1993 "Early Stone Industries and Inferences Regarding Language and Cognition." In (K. Gibson and T. Ingold, Eds.): *Tools, Language and Cognition*. Cambridge: Cambridge University Press. Pp. 346-362. By Nicholas Toth and Kathy Schick.
- 1992 "Geoarchaeological Analysis of an Acheulean Site at Kalambo Falls, Zambia." *Geoarchaeology* **7**:1-26. By Kathy Schick.
- 1991 "Archaeological Perspectives in the Nihewan Basin, China." *Journal of Human Evolution* **21**:13-26. By K. Schick, N. Toth, Q. Wei, J.D. Clark, & D.E. Etler.
- 1991 "On Making Behavioral Inferences from Early Archaeological Sites." In *Cultural Beginnings: Approaches to Understanding Early Hominid Life-ways in the African Savanna*. Bonn: Dr. Rudolf Habelt GMBH, Monographien, Bandd 19. Pp. 79-107. By Kathy Schick.
- 1991 "Experimental Archaeology: Journeying into Prehistory." *Ligabue Magazine* **19**:64-83. By Nicholas Toth and Kathy Schick.
- 1989 "An Early Paleontological Assemblage as an Archaeological Test Case." In (R. Bonnicksen and M. Sorg, Eds.): *Bone Modification*. Orono, Maine: Center for the Study of the First Americans. Pp. 121-137. By K.D. Schick, N. Toth and T. Daeschler.
- 1987 "Modeling the Formation of Early Stone Age Artifact Concentrations." *Journal of Human Evolution* **16**:789-807. By Kathy Schick.
- 1987 "Context and Content: impressions of Palaeolithic sites and assemblages in the People's Republic of China." *Journal of Human Evolution* **17**:439-448. By J. Desmond Clark and Kathy Schick.
- 1987 "Experimentally Derived Criteria for Assessing Hydrologic disturbance of Archaeological Sites." In (D.T. Nash and M.D. Petraglia, Eds.): *Natural Formation Processes and the Archaeological Record*. BAR International Series 352. Pp. 86-107. By Kathy Schick.
- 1986 *The First Million Years: The Archaeology of Proto-Human Culture*. In (M. Schiffer, Ed.): *Advances in Archaeological Method and Theory, Volume 9*. New York: Academic Press. Pp.1-96. By N. Toth and K.D. Schick.

- 1983 "The Cutting Edge: An Elephant Butchery with Stone Tools." *Interim Evidence* 5(1). Pp. 8-10. By Nicholas Toth and Kathy Schick.
- 1980 "FxJj 50: an early Pleistocene site in Northern Kenya." *World Archaeology* 12(2). Pp. 109-136. By H. Bunn, J.W.K. Harris, G. Isaac, Z. Kaufulu, E. Kroll, K.D. Schick, N. Toth, and A.K. Behrensmeyer.

Grants and Fund-raising:

- 2000-2006 Fund-raising for construction, furnishing, and endowment of Stone Age Institute, a non-profit research institute whose mission involves research and education into human technological origins and development.
- 2002-2003 Department of Health and Human Services, National Institute of Child Health and Human Development. Investigations into Ape Stone Tool-Making Capabilities. Nicholas Toth and Kathy Schick, co-PI's. Amount of award: \$30,667.
- 2001-2003 National Science Foundation. Gona Paleoanthropological Research Project. Amount of Award: \$100,000. Nicholas Toth and Kathy Schick, Co-PI's with PI, Seleshi Semaw.
- 2001-2002 Department of Health and Human Services, National Institute of Child Health and Human Development. Investigations into Ape Stone Tool-Making Capabilities. Nicholas Toth and Kathy Schick, co-PI's. Amount of award: \$28,908.
- 2000-2001 Department of Health and Human Services, National Institute of Child Health and Human Development. Investigations into Ape Stone Tool-Making Capabilities. Nicholas Toth and Kathy Schick, co-PI's. Amount of award: \$29,775.
- 2000 Wenner-Gren Foundation for Anthropological Research. "Gona Palaeoanthropological Research Project, Afar, Ethiopia." Grant awarded: \$19,000. Sileshi Semaw, Principal Investigator, Kathy Schick and Nicholas Toth Co-Principal Investigators.
- 1999-2000 National Science Foundation. "Exploratory Palaeoanthropological Research and Survey into the Plio-Pleistocene Deposits of the Gona Palaeoanthropological Research Project Area, Afar, Ethiopia." Grant awarded: \$127,780. Sileshi Semaw, P.I., Kathy Schick and Nicholas Toth Co-PI's.
- 1999 Wenner-Gren Foundation for Anthropological Research. "Exploratory Palaeoanthropological Research in the Gona deposits, Afar, Ethiopia." Grant awarded: \$19,000. Sileshi Semaw, P.I., Kathy Schick and Nicholas Toth Co-PI's.
- 1995-1997 National Science Foundation Grant of \$69,980 for archaeological research in the Nihewan Basin, China: "Early Palaeolithic Archaeological Investigations in the Nihewan Basin, Northern China." Project Directors: Kathy Schick and Nicholas Toth.

- 1994 L.S.B. Leakey Foundation. Grant of \$4500 for bursaries to subsidize travel of African students to attend and participate in the SaFA (Society of Africanist Archaeologists) Biennial Conference held in Bloomington, April 1994.
- 1995 U.S. Information Agency (State Department). Grant of to sponsor the travel and expense of three African scholars to come to the U.S. to participate in workshop, "Entering the 21st Century: New Directions for African Archaeology," held immediately after the SaFA (Society of Africanist Archaeologists) Conference.
- 1989-1993: Archaeological Research in China. Project funded by a \$280,000 grant to U.C. Berkeley from the Henry Luce Foundation. (J. D. Clark, Project Director).
- 1990-1993: Archaeological Research in Ethiopia. Co-leader of archaeological team funded by a \$270,000 grant to U.C. Berkeley from the National Science Foundation. (Project Directors: J. Desmond Clark and Tim D. White).
- 1991 "Investigations of the Stone Tool-Making and Tool-Using Abilities of a Bonobo." Co-investigator, project funded by a \$12,000 grant from the Wenner-Gren Foundation for Anthropological Research.
- 1991 Grant from Visiting Scholar Exchange Program, Committee on Scholarly Communication with the People's Republic of China (co-sponsored by National Academy of Sciences, American Council of Learned Societies, and Social Science Research Council). Project title: "Initiation of Collaborative Palaeolithic Archaeological Research, Nihewan Basin."
- 1989 L.S.B. Leakey Foundation grant of \$5650 for research project: "Collaborative Archaeological Research in the People's Republic of China." (Declined in favor of Luce Foundation funding).
- 1987 Wenner-Gren Anthropological Grant. Grant of \$4000 for study visit to China for archaeological consultation (April-May, 1987).
- 1986 L.S.B. Leakey Foundation Grant of \$2500, travel to China as an archaeological consultant.
- 1985 L.S.B. Leakey Foundation Grant of \$4000, for excavation and taphonomic analysis of hyena den in Jordan. (Co-director with Nicholas Toth).
- 1982 L.S.B. Leakey Foundation Grant of \$2500, for geoarchaeological study of Plio-Pleistocene sites in Peninj area, Lake Natron, Tanzania.

Fellowships and Honors:

- 2003 Elected Fellow of the American Association for the Advancement of Science.
- 1997- *Who's Who of American Women.*
- 1997- *The World Who's Who of Women.*

1996-1997 Distinguished Faculty Research Lecture Award. Research and University Graduate School and the Office of the Vice President for Academic Affairs and Bloomington Chancellor. (Award received jointly with Nicholas Toth).

1994 Outstanding Young Faculty Award, Indiana University.

1982-1983: Robert Lowie Memorial Fellowship, U.C. Berkeley.

1979-1980: Genevieve McEnery Fellowship, U.C. Berkeley.

1979-1980: Chancellor's Fellowship, U.C. Berkeley, 1979 (declined in favor of the McEnery Fellowship).

1978-1979: Boise Fellowship, Oxford University.

1978-1979: Robert Lowie Memorial Fellowship, U.C. Berkeley.

1978: Sigma Xi Research Society Scholarship.

1974: *Summa cum laude*, B.A., Kent State University.

1967-8: Mather Scholarship, Case-Western Reserve University.

Special Training:

Computer Studies and Statistical Analysis in Anthropology, Quantitative Anthropological Laboratory, Anthropology Department, U.C. Berkeley.

Scanning Electron Microscope Training, U.C. Berkeley.

Advanced Course, Scanning Electron Microscopy, Cambridge University, England, 1981. Royal Microscopical Society.

Lithic Microwear Analysis, University of Illinois, Chicago, 1980.

Lithic Technology Fieldschool, Washington State University, 1978.

Archaeological Sediment Analysis, 1978, Department of Geology, U.C. Berkeley. With Dr. Richard Hay.

Zooarchaeological Analysis, Department of Paleontology, U.C. Berkeley, 1978. With Drs. William Clemens and Donald Savage, Paleontology Department, and Glynn Ll. Isaac.

Societies and Associations:

American Association for the Advancement of Science
Society of Africanist Archaeologists (President, 1991-1994)
American Anthropological Association
Society for American Archaeology

Palaeoanthropology Society

Editorial Boards:

Paleoanthropological Society Journal, 2002-2004.
African Archaeological Review (editorial board, 1994-2000)

Field Work and Research:

- 2010 Archaeological research in the Nihewan Basin, China.
- 2004 PET (Positron emission tomography) study of brain activity during simple and complex stone tool manufacture. With Dietrich Stout and Nicholas Toth.
- 1990 to present Long-term experimental studies of ape tool-making and tool-using, Language Research Center and Great Ape Trust. Co-PI with Nicholas Toth.
- 1999 Archaeological research at Gona, Ethiopia. Investigating the earliest known archaeological sites and survey for sites and fossils.
- 1999 Laboratory studies of ape stone tool-making, Language Research Center, Atlanta. Studies using raw materials from the Gona site area, to make direct comparisons with the earliest stone tools.
- 1997 Field research, Middle Awash research area, Ethiopia, the Middle Awash Research Project. Funded by National Science Foundation. Survey in 2.5 million year old deposits and later Acheulean deposits.
- 1997 Field survey in the Kesem Kebena research area, Ethiopia. Survey and reconnaissance for future development of this new research area.
- 1997 Experimental archaeological research in the Debra Birhan area in the Ethiopian Highlands. Study of the manufacture of basalt spheroids.
- 1997 Laboratory analysis at the Institute of Cultural Relics, Hebei Province. Analysis of fossil bones and stone artifacts from the Feiliang ridge sites in the Nihewan Basin.
- 1996 Archaeological Fieldwork in the Nihewan Basin, China, investigating Early Palaeolithic sites. Funded by a \$69, 980 grant to Indiana University from the National Science Foundation. Project Directors: Kathy Schick and Nicholas Toth.
- 1995-2000 EMG (electromyography) studies of muscle activity during stone tool manufacture and use. Biomechanics Laboratory, Mayo Clinic, Rochester, Minnesota. With Mary Marzke, Ronald Linscheid, Kathy Schick, and Kevin Hunt.
- 1995 (December). Middle Awash Research Project, Ethiopia. Survey and supervision of graduate student, Tadewos Assebework, for development of future dissertation project. Funded by a grant from NSF.

- 1993 (November-December). Middle Awash Research Project, Ethiopia. Excavation and survey, early archaeological sites. Funded by a grant from NSF.
- 1992 (July-August). Archaeological field work in the Nihewan Basin, northern China. Funded by a grant from the Henry Luce Foundation.
- 1991 (July-August). Archaeological field work in the Nihewan Basin, northern China. Funded by a grant from the Henry Luce Foundation.
- 1991 (June). Ethnoarchaeological research on bamboo technology among peoples in southern China. Funded by a grant from the Henry Luce Foundation.
- 1990-1993. Experimental investigation of bonobo (pygmy chimpanzee) stone tool-making and tool-using behavior. With N. Toth, E. Sue Savage-Rumbaugh, R. Sevcik, and D. Rumbaugh, Language Research Center, Atlanta.
- 1990 (October-December). Archaeological field research in the Middle Awash Valley, Ethiopia. Funded by a grant from NSF.
- 1990 (June-August). Archaeological field survey and laboratory studies in northern China (Nihewan Basin) and archaeological survey in southern China. Funded by a \$285,000 3-year grant from the Luce Foundation.
- 1989 (Dec.)-1990 (Jan). Archaeological field research in the Nihewan Basin, northern China and laboratory studies at the Institute of Vertebrate Paleontology and Paleoanthropology (I.V.P.P.), Academia Sinica, Beijing.
- 1987 (April-May). People's Republic of China. Study tour of Palaeolithic site localities and archaeological and palaeontological collections. At the invitation of the Institute of Vertebrate Paleontology and Palaeoanthropology, Chinese Academy of Sciences (Academia Sinica).
- 1985 (June). Portugal. Survey of archaeological sites, in conjunction with the Archaeological Survey of Southern Portugal. Study of archaeological and palaeontological materials at the Geological Service of Portugal, Lisbon.
- 1985 (May). Spain. Archaeological analysis of Lower Palaeolithic artifacts from the site of Torralba. National Archaeological Museum, Madrid.
- 1985 (April). Jordan. Survey and reconnaissance of archaeological site localities. Excavation of a striped hyena den for comparative information on bone accumulation and modification by carnivores. Co-director with Dr. Nicholas Toth.
- 1985 (June). Robbins Site, San Bernardino County, California. Taphonomic excavation of Miocene palaeontological site, to obtain data on bone modification relevant for analysis of fauna at early archaeological sites. Co-director with Dr. Nicholas Toth.

- 1983 (July-August). Ambrona, Spain. Analysis of lithic materials from Acheulean site for evidence of contributing site formation processes. Dr. F. Clark Howell, project director.
- 1982 (November). National Archaeological Museum, Madrid, Spain. Preliminary analysis of lithic materials from Acheulean site for evidence of contributing site formation processes. Dr. F. Clark Howell, project director.
- 1982 (August-October). Peninj, Lake Natron, Tanzania. Field survey in Natron basin and direction of excavation at early Acheulean (RHS) site. Analysis of depositional contexts and lithic materials at early East African Acheulean sites in northern Tanzania. In conjunction with Dr. Glynn Isaac, project director.
- 1981 (August-September). Ambrona, Spain. Excavation at the Acheulean, and lithic analysis. Dr. F. Clark Howell and Leslie Freeman, project directors.
- 1981 (July-August). Koobi Fora, Kenya. Dissertation fieldwork: Excavation/analysis of experimental sites.
- 1979 to 1980 (September through June). Koobi Fora, Kenya. Excavation and survey to Plio-Pleistocene site localities; experimental field research for dissertation; and studies of archaeological materials at the Kenya National Museum. Dr. Glynn Isaac, project director.
- 1978-1979 (September through June). Koobi Fora, Kenya. Excavation and survey of archaeological sites and experimental research for dissertation; laboratory analysis of excavated assemblages at the Kenya National Museum, Nairobi.
- 1977 (September-December). Koobi Fora, Kenya. Excavation and survey, Plio-Pleistocene sites; initiation of experimental research for dissertation. Dr. Glynn Isaac, project director.
- 1976 (September-December). Analysis of burial population at the Late Woodland site of Libben, northern Ohio. Study of known artifact associations, skeletal mutilations, burial location and orientation, and their correlations with demographic information on age and sex.
- 1976 (June-August). Milan County, Ohio. Field supervisor. Excavation of Amerindian (Anderson) site (primarily Late Woodland occupation). Dr. Orrin C. Shane, project director.
- 1975 (November). Field supervisor. State archaeological survey for Amerindian occupation sites, northern Ohio.
- 1975 (June-August). Archaic rockshelter, Summit County, northeast Ohio. Excavation. Dr. Olaf Prufer and Dr. Donald Metzger, project directors.

Organization and Teaching of Workshops:

"Exploring African Prehistory: From the Stone Age to Complex Societies." A one-day workshop on African archaeology sponsored by the African Studies Program of Indiana University.

"Lithic Technology and Site Formation: Modern Perspectives and Approaches." Workshop for Chinese archaeologists held at the "Peking Man Site" (Zhoukoudian), Beijing, People's Republic of China, May 30-June 14, 1991. Co-organized and co-taught with Nicholas Toth and Diane Gifford-Gonzalez of U.C. Santa-Cruz.

Conferences Organized:

2009 *Origins: The Evolution of the Universe, the Earth, Life, and the Human Species.* Sponsored by the Stone Age Institute and Indiana University, October 10th, 2009. Co-organizer with Nicholas Toth.

2007 *The Human Brain Evolving: Papers in Honor of Ralph L. Holloway.* Organizers Douglas Broadfield, Michael Yuan, Kathy Schick, and Nicholas Toth. International symposium. Indiana University, Bloomington and the Stone Age Institute. Sponsored by the Stone Age Institute and Indiana University.

2005 *New Approaches to the Earliest Stone Age.* Closed session conference for twenty scientists. Nicholas Toth and Kathy Schick, Organizers. Stone Age Institute, Bloomington, Indiana. Sponsored by the Stone Age Institute and Indiana University.

2004 *African Taphonomy: A Tribute to the Career of C.K. "Bob" Brain.* Closed session conference for sixteen scientists. Stone Age Institute, Bloomington, Indiana. Organized by Travis Pickering, Kathy Schick, and Nicholas Toth. Sponsored by the Wenner-Gren Foundation for Anthropological Research, the Stone Age Institute, and Indiana University.

2004 *Missing Links: Studies in Human Origins Research.* Public symposium, Indiana University, Bloomington. Fifteen speakers. Organized by Travis Pickering, Kathy Schick, and Nicholas Toth. Sponsored by the Wenner-Gren Foundation for Anthropological Research, the Stone Age Institute, and Indiana University.

1994 *Society of Africanist Archaeologists*, at Indiana University, Bloomington . Organized by Kathy Schick and Nicholas Toth.

1987 "The Quest for our Ancestors." Conference on human origins, Indiana University, Bloomington. Organized by Nicholas Toth and Kathy Schick. Co-sponsored by CRAFT Research Center, Indiana University, and the L.S.B. Leakey Foundation.

Museum Exhibits and Displays Organized:

2010 Curator and development of concept and content. "*From the Big Bang to the World Wide Web.*" Museum exhibit, Mathers Museum of World Cultures,

Indiana University. With Nicholas Toth. Opened October 2010.

- 2007 Consulted and provided specimens for exhibit "*Rocks from Space: Meteorites.*" Indiana State Museum, Indianapolis.
- 1998 Consulted and provided specimens, Indianapolis Museum of Art. Exhibit and book on African Prehistory.
- 1997 Consultant, "Think Tank" Exhibit on Animal Intelligence, National Zoo, Washington.
- 1996 Consultant, Indianapolis Museum of Art. Exhibit and book on African Prehistory.
- 1995 "Images from the Field: An Archaeological Camera." Photo exhibition, Runcible Spoon Cafe. (With Kathy Schick).
- 1987 "The Rise of Humankind", William Hammond Mathers Museum of Anthropology, History, and Folklore, Indiana University, Bloomington. Co-organizer with Jeanne Sept and Nicholas Toth, exhibits on human evolution and palaeolithic lifeways. In conjunction with human origins symposium, "The Quest for our Ancestors".
- 1987 "Before and After Darwin." Display on the history of evolutionary thought, Lilly Library. Co-organized with Nicholas Toth.
- 1986 "J. Desmond Clark in Africa: A Half-Century Uncovering the Human Past". Organizer, Lowie Museum of Anthropology Exhibit, U.C. Berkeley. In conjunction with Festschrift in honor of Prof. J. Desmond Clark.

Papers at Professional Conferences, Meetings, and Workshops:

- 2010 New York Academy of Sciences.
- 2010 Department of Anthropology, University of Arizona, Tucson.
- 2010 "From the Big Bang to the World Wide Web". Leighton A. Wilkie Memorial Lecture, Indiana University, Bloomington, Indiana.
- 2010 Danta Primate Research Center, Costa Rica.
- 2009 Institute of Vertebrate Palaeontology and Palaeoanthropology, Beijing, China.
- 2009 "The Origins of Creativity and Symbolic Thought." Symposium , *Origins: The Evolution of the Universe, the Earth, Life, and the Human Species*. Sponsored by the Stone Age Institute and Indiana University.
- 2009 "Human Origins and the Creative Spirit." Invited Leakey Foundation Lecture,

Kaneko Institute, Omaha. By Kathy Schick and Nicholas Toth.

- 2009 “Culture, Cognition, and the Material Culture of Early Hominins and Modern Apes.” Invited paper at Symposium, *Culture and the Mind: Artefacts & Material Culture*,” University of British Columbia, Vancouver. By Nicholas Toth and Kathy Schick.
- 2008 “Behavioural and Geoarchaeological Variables Affecting Lithic Assemblages.” Society for American Archaeology Annual Meetings, Invited Symposium, Vancouver. By Nicholas Toth and Kathy Schick.
- 2008 “The Human Mind Evolving.” Invited paper at Symposium, “Emergence of Mind: Decade of the Mind III,” Des Moines Iowa, sponsored by the Great Ape Trust. By Kathy Schick and Nicholas Toth.
- 2008 “Critical Thresholds in Human Evolution: From Ape to Artist.” Evolutionary Epic Symposium, Oahu, Hawaii. By Kathy Schick and Nicholas Toth.
- 2008 “New Approaches to the Early Stone Age.” Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China.
- 2007 The Adaptive Significance in Early Hominin Technologies: Diverse Avenues of Inquiry.” Palaeoanthropology meets Primatology Workshop, Cambridge University. By Nicholas Toth and Kathy Schick.
- 2007 “Lessons from the Apes: Dynamics of Stone Tool-making, Transport, and Use.” Palaeoanthropology meets Primatology Workshop, Cambridge University. By Kathy Schick and Nicholas Toth.
- 2007 Hominid Brain Reorganization, Technological Change, and Cognitive Complexity.” Symposium, “*The Human Brain Evolving: Papers in Honor of Ralph L. Holloway*.” By Nicholas Toth, Kathy Schick, and Mohamed Sahnouni. Bloomington, Indiana.
- 2007 “The Neural Correlates of Early Stone Age Tool Making: Evolutionary Implications.” Symposium, “*The Human Brain Evolving: Papers in Honor of Ralph L. Holloway*.” By Dietrich Stout, Nicholas Toth, and Kathy Schick. Bloomington, Indiana.
- 2007 “Why the Acheulean? Experimental Studies of the Manufacture and Function of Acheulean Tools.” Colloque international: *Les Culture à Bifaces du Pléistocène Inférieur et Moyen Dans le Monde. Émergence du Sens de l’Harmonie*. Centre Européen de Recherches Préhistoriques de Tautavel, France. By Nicholas Toth and Kathy Schick.
- 2007 “Acheulean Industries of the Lower and Middle Pleistocene, Middle Awash, Ethiopia.” Colloque international: *Les Culture à Bifaces du Pléistocène Inférieur et Moyen Dans le Monde. Émergence du Sens de l’Harmonie*. Centre Européen de Recherches Préhistoriques de Tautavel, France. By Kathy Schick and Nicholas

Toth.

- 2007 “The Dawn of Human Technology: A Multidisciplinary Approach.” Darwin Days Lecture, Furman University. By Nicholas Toth and Kathy Schick.
- 2007 “Early Stone Age Technology.” Prehistory Festival, Georgia National Museum, Tbilisi, Republic of Georgia. By Nicholas Toth and Kathy Schick.
- 2007 “The Role of Rock: The Dawn of Human Technology.” Explorer’s Talk, Cleveland Museum of Natural History, Cleveland, Ohio. By Nicholas Toth and Kathy Schick.
- 2006 By Nicholas Toth and Kathy Schick. “Further Investigations into the Oldowan: Lessons from the Prehistoric Record, Experimental Archaeology, and Apes Invited Symposium.” Paper at invited Symposium: “Interdisciplinary Approaches to Understanding the Oldowan,” Society for American Archaeology annual meeting, Puerto Rico
- 2006 A Quantitative Assessment of Mode 1 Knapping Skill. By Dietrich Stout, Kathy Schick, and Nicholas Toth. Paper at invited Symposium: “Interdisciplinary Approaches to Understanding the Oldowan,” Society for American Archaeology annual meeting, Puerto Rico.
- 2005 “Measuring Levels of Skill in Oldowan Tool-making: Insights from *Pan*, *Australopithecus*, and *Homo sapiens*,” by Kathy Schick, Nicholas Toth, and Sileshi Semaw. Paper at conference, “New Approaches to the Earliest Stone Age,” Stone Age Institute, Bloomington, Indiana.
- 2005 “The brain basis of Early Stone Age knapping skill: A preliminary report.” By Dietrich Stout, Kathy D. Schick, and Nicholas Toth. Paper at conference, “New Approaches to the Earliest Stone Age,” Stone Age Institute, Bloomington, Indiana.
- 2005 “New Approaches to Early Technologies: An Introduction.” By Nicholas Toth. Paper at conference, “New Approaches to the Earliest Stone Age,” Stone Age Institute, Bloomington, Indiana
- 2005 Experimental Studies of Ape Technology. Nicholas Toth and Kathy Schick. Primate Technology Workshop, Miami University.
- 2004 “Excavation and taphonomic analysis of a recent striped hyena den in northeastern Jordan.” In: *African Taphonomy: A Tribute to the Career of C.K. “Bob” Brain*. Closed session conference for sixteen scientists. Stone Age Institute, Bloomington, Indiana. By Kathy Schick, Nicholas Toth, and Travis Pickering.
- 2004 Memorial tribute to J. D. Clark. Paleoanthropology Society meeting, Toronto. (With Tim White).
- 2003 “The Prehistoric Roots of Human Technology.” *A Centennial Tribute to Louis*

- Leakey*, Chicago Field Museum of Natural History, sponsored by the L.S.B. Leakey Foundation. By Nicholas Toth and Kathy Schick.
- 2004 Stone tool-making presentation and demonstration, Main Hall, Chicago Field Museum. Part of *A Centennial Tribute to Louis Leakey*, Chicago Field Museum of Natural History, sponsored by the L.S.B. Leakey Foundation. Nicholas Toth and Kathy Schick.
- 2003 *Roundtable Discussion: Problems in Early African Prehistory. A Centennial Tribute to Louis Leakey*, Chicago Field Museum, sponsored by the L.S.B. Leakey Foundation. Kathy Schick.
- 2001 "A technological comparison of the stone tool-making capabilities of Australopithecus/early *Homo*, *Pan paniscus*, and *Homo sapiens*, and possible evolutionary implications. Paper presented at the annual meetings of the Paleoanthropological Society, Denver, Colorado. By Nicholas Toth, Kathy Schick, and Sileshi Semaw.
- 2002 "Recent discoveries from Gona, Afar, Ethiopia." Paper at the annual meetings of the Paleoanthropological Society, Denver, Colorado. By S. Semaw, K. Schick, N. Toth, S. Simpson, J. Quade, M. Rogers, P. Renne, D. Stout, and M. Dominguez-Rodrigo.
- 2000 *Pan* the Tool-Maker: Insights on the Early Stone Age from Experimental Studies of Ape Stone Tool-Making." Ape Stone Tool-making: Perspectives on the earliest stone tools. In "Cultural Evolution: from Pan to Homo", the second Colloquium before the Fifth World Congress of Human Paleontology (UNESCO International Association for the Study of Human Paleontology), Barcelona, November. Paper by Kathy Schick and Nicholas Toth, presented by K. Schick.
- 2000 "Recent Experimental Approaches to the Early Stone Age, and Behavioral Implications for Early Hominids" In "Cultural Evolution: from Pan to Homo", the second Colloquium before the Fifth World Congress of Human Paleontology (UNESCO International Association for the Study of Human Paleontology), Barcelona, November. Paper by Nicholas Toth and Kathy Schick, presented by N. Toth.
- 2000 "Paleoanthropology at the Millenium." In "Archaeology at the Millenium," Plenary Symposium opening the Society for American Archaeology Annual Meetings, Philadelphia. Paper by Kathy Schick and Nicholas Toth, presented by K. Schick.
- 2000 Biface Technological Development and Variability in the Acheulean Industrial Complex in the Middle Awash Region of the Afar Rift, Ethiopia. In Symposium, "From Coup de Poing to Clovis: Approaches to the Study of Biface Variability." Society for American Archaeology Annual Meetings, Philadelphia. By J. Desmond Clark and Kathy Schick, presented by K. Schick.
- 1997 "Origin and development of tool-making behavior in Africa and Asia." In the

International Symposium, "Evolution of the Human Family: State of the Art."
Colloquium: "Evolution of Human Behavior and Communication." Madrid.
Paper by Kathy Schick and Nicholas Toth, presented by K. Schick.

- 1997 "Hard hammer percussion manufacture of tools and early hominid hand morphology". Paleoanthropology Society Annual Meeting, St. Louis. By M.W. Marzke, N. Toth, K. Schick, S. Reece, B. Steinberg, K. Hunt, R.L. Linscheid, and K-N. An.
- 1997 "Sidescraping, endscraping and the hominid hand." By Paleoanthropology Society Annual Meeting, St. Louis. By S. Reece. B. Steinberg. M.W. Marzke, N. Toth, K. Schick, K. Hunt, R.L. Linscheid, and K-N. An. Presented by S. Reece.
- 1996 "Archaeological Variability in Middle Pleistocene Times in the Middle Awash Valley of Ethiopia." Society for American Archaeology Annual Meeting, New Orleans, April 10-14. Symposium: "Core and Flake Tool Assemblages: Coming to Terms with the 'Other' Industries of the Middle Pleistocene." Paper by Kathy Schick and J. Desmond Clark. (Presented by K. Schick).
- 1996 "The Early Palaeolithic of Eastern Asia: Insights from the Nihewan Basin in Northern China." Society for American Archaeology Annual Meeting, New Orleans, April 10-14. Symposium: "Core and Flake Tool Assemblages: Coming to Terms with the 'Other' Industries of the Middle Pleistocene." Paper by Nicholas Toth, Kathy Schick, and J. Desmond Clark. (Presented by Nicholas Toth).
- 1995 "A Comparative View on the East Asian Palaeolithic." Invited paper at Tokyo University Museum Symposium, *Neanderthals and Modern Humans in Western Asia*, November 20-25, Tokyo. By Kathy Schick.
- 1995 "Early Stone Tools - "Simple" or "Complex"? The Implications of the Early Stone Age for Human Cognitive Evolution." Invited session on the Evolution of Human Cognition, Annual Meetings of the American Anthropological Association, Washington, D.C.
- 1995 "Out of Africa: Early Forays into Foreign Lands." Invited paper for L.S.B. Leakey Symposium, *Interpreting the Past*, Denver Museum of Natural History. October.
- 1995 "Early Evidence for Hominid Migrations into eastern Asia." Paleoanthropology Society annual meetings, Oakland, California. By Kathy D. Schick and Nicholas Toth.
- 1994 "Early Acheulian Occurrences from the Bouri Peninsula, Middle Awash, Ethiopia." Society of Africanist Archaeologists 12th Biennial Conference, Indiana University, Bloomington Indiana. By Kathy Schick and J. Desmond Clark.
- 1993 "New Views of the Early Stone Age." Four Million Years of Hominid Evolution in Africa: An International Congress in Honour of Dr. Mary Douglas Leakey's Outstanding Contribution in Palaeoanthropology, August 8-14, 1993, Arusha, Tanzania.

- 1992 American Anthropology Association Annual Meeting, San Francisco, December 2-6. "A Perspective on the Palaeolithic of China and Eastern Asia."
- 1992 11th Biennial Conference of the Society of Africanist Archaeologists, (SAfA), March 26-29, Los Angeles. "Stone Technology and Land-Use in the Early Stone Age: a Case Study."
- 1992 Palaeoanthropology Society, April 7-8, Pittsburgh. "Palaeoanthropological Investigations at Early Palaeolithic Sites in the Nihewan Basin, northern China."
- 1991 Lithic Technology Symposium, Lexington, Kentucky. Pan the Tool-maker: experiments in tool-making and tool-using abilities of a bonobo ("pygmy chimpanzee").
- 1991 International Union for Quaternary Research (INQUA), XIII International Congress, August 2-9, Beijing. "Experimental Studies of Palaeolithic Site Formation."
- 1989 American Anthropology Association Annual Meeting, Washington. Symposium on North American Approaches in Lithic Technology. "Why so many bifaces? Reevaluation of an an Acheulean 'Floor' at Kalambo Falls, Zambia."
- 1989 American Anthropology Association Annual Meeting, Washington. Symposium on the Anthropology of Technology. "The Origins of Human Technology." Co-authored with Nicholas Toth.
- 1987 Union Internationales des Sciences Prehistoriques et Protohistoriques (U.I.S.P.P.), XI Congres Internationale, Mainz, Germany.
- 1986 American Anthropology Association meetings, Philadelphia. "Untangling the Web: Archaeological Site Formation and Transformation."
- 1986 Society for American Archaeology meetings, New Orleans. Invited Paper in Symposium on Natural Disturbance Processes and the Archaeological Record. "Differentiating between the effects of behavioral and non-behavioral processes on Palaeolithic assemblages."
- 1986 The Longest Career: Festschrift in honor of J. Desmond Clark, U.C. Berkeley, Berkeley, California. "Discerning behavior patterns in the Lower Pleistocene."
- 1984 Palaeoecology Symposium, Rutgers University, Invited Paper. "The Early Archaeological Sites at Koobi Fora, Kenya: what the evidence reveals about site formation processes and behavior patterns in the Lower Pleistocene."
- 1983 Kroeber Anthropological Society meetings, Berkeley, California. "The absence of evidence: dealing with biases and distortions in the record."
- 1982 American Society for Africanist Archaeologists meetings, Berkeley, California. "Results of some site formation experiments: the effects of sedimentary processes upon archaeological materials."

- 1982 The Prehistoric Society, London, Spring Conference: Hunter-Gatherers Studies. "Site Formation Processes in East Africa: an experimental study."
- 1981 Society for American Archaeology meetings, San Diego, California, Symposium on Proto-Human Adaptation. "Experimental Studies of Site Formation Processes."
- 1978 Kroeber Anthropological Society meetings, Berkeley, California. "After the Flood: observed modification of lithic assemblages by overbank floodwaters."

Invited Lectures at Educational, Research, and Community Institutions:

- 2009 "From the big bang to the world wide web: A Framework for Science Education." Teachers' Workshop, Cardinal Stage Company, Bloomington, Indiana.
- 2009 Rotary Club, Bloomington.
- 2007 Continuing studies, Indiana University, Bloomington.
- 2006 Rotary Club, Bloomington.
- 2006 Google Corporate Headquarters, Mountain View, California: "The Role of Rock: Technology, Adaptation, and Human Evolution," by Nicholas Toth and Kathy Schick.
- 2006 IDEO Headquarters, Palo Alto, California: "The Role of Rock: Technology, Adaptation, and Human Evolution" by Nicholas Toth and Kathy Schick.
- 2005 Indiana University, Mini-University course, "The Archaeology of Human Origins."
- 2005 Indiana University Continuing Studies course, "Missing Links."
- 2004 St. Paul's School, Concord, New Hampshire.
- 2004 Talk for Cook Group, Inc., at the Stone Age Institute.
- 2004 Talk for Bloomington Rotary Club at the Stone Age Institute.
- 2004 Talk for Bloomington Chamber of Commerce.
- 2003 Talk on human origins for Chicago public schools.
- 2003 Mini-University Course on Human Origins, Indiana University, Bloomington.
- 2002 Bowers Museum, Santa Ana, California.
- 2002 Talk for Bloomington Chamber of Commerce.

- 2000 Department of Anthropology, University of Iowa.
- 1999 New discoveries of fossils and artifacts in the Gona Research Area. National Museum of Ethiopia. With Nicholas Toth and Sileshi Semaw.
- 1998 "The Role of Rock: The Evolutionary Origins of Human Technology." RUGS presentation for Graduate School Deans, the Association of Graduate Schools Annual Meeting. (With Nicholas Toth).
- 1997 "Experimental Investigations into the Origins of Human Technology." Anthropology Department, Arizona State University. (With Nicholas Toth).
- 1997 "The Archaeology of Human Origins." Department of Integrative Biology, University of California, Berkeley. (With Nicholas Toth).
- 1997 "The Role of Rock: The Evolutionary Origins of Human Technology." Distinguished Faculty Research Lecture, IU Bloomington. (With Nicholas Toth).
- 1997 "The Dawn of Human Technology." Address at Annual Banquet of the Sigma Xi Research Society. (With Nicholas Toth).
- 1997 Breakfast with Scholars talk, IUPU Columbus. (With Nicholas Toth).
- 2004, 1997, 1993, 1989, 1988, 1987, 1986. Lectures for International Art and Anthropological Tour of Upper Palaeolithic Cave Art, "Painted Caves of Ancestors," Cantabrian Spain, Pyrenees and Perigord, France. With Nicholas Toth.
- 1996 "Behavioral Investigations into the Early Stone Age." Institute of Vertebrate Paleontology and Paleoanthropology, Beijing. (With Nicholas Toth).
- 1996 "Experimental Approaches to Stone Age Archaeology." Archaeology Institute, Beijing University, Beijing. (With Nicholas Toth).
- 1995 "Pursuits of the Past: In Search of Human Origins." Invited lecture for the Joan Wood Lecture Series, sponsored by the Indiana University Department of Biology's Task Force on Women. October, 1995.
- 1994 "The Dawn of Human Technology." Anthropology Department, University of Illinois, Urbana-Champaign.
- 1994 Anthropology Department, University of Notre Dame.
- 1993 Chicago Field Museum.
- 1993 California Academy of Sciences, San Francisco.
- 1993 Santa Barbara Natural History Museum.

- 1993 Los Angeles County Natural History Museum.
- 1993 Fellows' Event, Los Angeles County Natural History Museum.
- 1993 San Diego Museum of Man.
- 1993 I.U. Bloomington Geology Department.
- 1992 University of Michigan, Anthropology Department.
- 1990 Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China. "Recent Perspectives on Archaeological Excavation and Analysis."
- 1989 Institute of Human Origins (Berkeley, California), Invited talk in Institute Lecture Series: "Camps, Caches, or Carcass Cafeterias: Possible interpretations of early archaeological sites."
- 1988 Livingstone Museum, Zambia, Lecture Series. "Experimental Studies of Site Formation."
- 1988 American Cultural Center, U.S. Embassy, Lusaka, Zambia.
- 1987 Reconstruction of Past Landscapes Lecture Series, Departments of Classics, Geography, Geology, and Sociology/Anthropology, Miami University. "Palaeolandscapes and prehistoric Site Formation Processes."
- 1987 Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China. "Studies of Archaeological Site Formation."
- 1987 Anthropology Department Seminar Series, Indiana University.
- 1985 Harvard University, Anthropology Department.
- 1985 National Archaeological Survey, Evora, Portugal.
- 1985 National Archaeological Museum, Madrid, Spain.
- 1985 Amman, Jordan: American Center for Oriental Research.
- 1985 U. C. Berkeley, Anthropology Department.
- 1985 Institute of Archaeology, London.
- 1985 University of Capetown, Department of Archaeology.
- 1982 Yale University, Anthropology Department.
- 1982 Anthropology Department, The Sorbonne, Paris.

- 1982 Centre Nationale de la Recherche Scientifique, Marseilles, France.
- 1982 University of Southampton, England, Department of Archaeology. Southampton, England.
- 1979 Oxford University, Department of Archaeology.

Consultation/Media:

- 2008 Granada Television, England
- 2007 Swedish National Television
- 2006 WTIU story on the Stone Age Institute, Bloomington, Indiana
- 2004 Filming, National Geographic program for Naked Science. Stone Age Institute.
- 2004 Filming for History Channel, segments on the history of tools. Filmed at the Stone Age Institute, Bloomington.
- 2003 Consultation with the Iowa Primate Learning Sanctuary, Stone Age Insitute.
- 2002 Consultation with ApeNet (scientists studying modern apes), Atlanta Georgia.
- 2001 Filming for New York Times Television series profiling scientists.
- 2000 Filming for NHK (Japanese National Television), in segment on ape stone tool-making (filmed at CRAFT in Bloomington).
- 2000 Filming for Scientific American Frontiers. Segment on early stone tools and hand evolution. Alan Alda, host.
- 1998 Filming for Discovery Channel, Canada: Discussion and explanation of Acheulean tools for broadcast program on new sites in Eritrea (Filmed at CRAFT in Bloomington).
- 1999 Filming for the History Channel. Two part series on hand tools; filming of segment, including interviews on early stone tools, and demonstration of stone tool-making and tool-using. (Filmed in Bloomington).
- 1996 Consultant for *National Geographic* articles on human evolution.
- 1995 Consultant for *Egypt in Africa* exhibition, Indianapolis Museum of Art.
- 1994-5 Consultation for *Tools Through Time* in new exhibit, *Think Tank*, for the National Zoological Park, Smithsonian Institution.

- 1993 Granada Television/Arts and Entertainment Network. Four-part series on human origins (*Ape Man*), hosted by Walter Cronkite. Involved in filming, helping orchestrate scenes, and consulting regarding content and accuracy.
- 1985 National Geographic Magazine. Consultant for issue on human evolution.
- 1980 BBC Television. 7-part series on human evolution, *The Making of Mankind*. Consultation and filming. Hosted by Richard Leakey.