

CURRICULUM VITAE

Name: NICHOLAS P. TOTH

Present Positions:

Co-Director, Stone Age Institute, Gosport, Indiana
Professor, Department of Anthropology and Cognitive Science Program, Indiana University
Co-Director, *CRAFT* (Center for Research into the Anthropological Foundations of Technology),
Indiana University, Bloomington.
Adjunct Professor, Biology Department, Indiana University
President, Friends of *CRAFT*, Inc. (research and education nonprofit)
Fellow, American Association for the Advancement of Science

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Education:

Ph.D. (1982). University of California, Berkeley. Anthropology: Old World Prehistory program.
M.A. (1978). University of California, Berkeley. Anthropology.
Postgraduate Diploma in Prehistory with Distinction (1975). Oxford University, England.
B.A. with Distinction (1974). Western College, Ohio. Anthropology.

Special Interests:

Human evolutionary studies, African prehistory, palaeolithic studies, the evolution of human intelligence, lithic technology, experimental archaeology, microscopic approaches to archaeology, faunal analysis and taphonomy, ethnoarchaeology, primate studies, history of evolutionary thought.

Teaching and Professional Positions:

1986 to present. Anthropology Department Faculty, Indiana University, Bloomington.
1987 to present. Co-Director, *CRAFT* (Center for Research into the Anthropological Foundations of Technology), Indiana University.
2003 to present Co-Director, Stone Age Institute
2000 to present President, Friends of *CRAFT*, Inc., non-profit research organization
1985 University of Capetown. Visiting Professor.
1983-1986. Institute of Human Origins, Berkeley. Research Associate, head of archaeological program.
1981-1983. Dept. of Anthropology, University of California, Berkeley. Visiting Professor.
1981 Dept. Anthropology, Stanford University. Visiting Professor.

Books:

- 2010 *The Human Brain Evolving: Papers in Honor of Ralph L. Holloway*. Douglas Broadfield, Michael Yuan, Kathy Schick, and Nicholas Toth, Eds. Gosport, Indiana: Stone Age Institute Press. 312 pages.
- 2009 *The Cutting Edge: New Approaches to the Archaeology of Human Origins*. Kathy Schick and Nicholas Toth, Eds. Gosport, Indiana: Stone Age Institute Press. 344 pages.
- 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.
- 1993 *Making Silent Stones Speak: Human Evolution and the Dawn of Technology*. New York: Simon and Schuster. By Kathy Schick and Nicholas Toth. 351 pp.

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. Pp. 46-83. By Nicholas Toth and Kathy Schick.
- 2008 “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. By Kathy Schick and Nicholas Toth.
- 2009 “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.
- 2007 “Carnivora and Carnivory: Assessing Hominid Toothmarks in Zooarchaeology.” In (Travis Pickering, Kathy Schick, and Nicholas Toth, Eds.): *Breathing Life into Fossils: Taphonomic Studies in Honor of C.K. “Bob” Brain*. Pp. 281-296. By Tim D. White and Nicholas Toth. Gosport, Indiana: Stone Age Institute Press.

- 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 “The Biomechanics of the Arm Swing in Oldowan Stone Flaking.” In (Nicholas Toth and Kathy Schick, Eds.): *The Oldowan: Case Studies into the Earliest Stone Age*. Edited by Nicholas Toth and Kathy Schick. Gosport, Indiana: Stone Age Institute Press. Pp. 333-338. By Jesus Dapena, William J. Anderst, and Nicholas Toth.
- 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 (Chris 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. Pp. 339-342. By Nicholas Toth and Kathy Schick.
- 2004 “C.K. ‘Bob’ Brain and African Taphonomy.” *Evolutionary Anthropology* 13:163-167. By Travis Pickering, Kathy Schick, and Nicholas Toth.
- 2003 “The Origins of the Genie: Human Technology in an Evolutionary Context.” In (Alan Lightman, Daniel Sarewitz and Chris 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 “J. Desmond Clark: An Introduction.” In: *An Archaeologist at Work in African Prehistory*

- and Early Human Studies: Teamwork and Insight. John Desmond Clark. University of California, Berkeley. By Kathy Schick and Nicholas Toth. Pp. iv-viii.*
- 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 “Palaeoanthropology at the Millenium.” *In Archaeology at the Millenium*, eds. T. Douglas Price and Gary Feinman. New York: Plenum. Pp. 39-108. By Kathy Schick and NicholasToth.
- 2001 “Chapter 10: Experiments in Quarrying Large Flake Blanks at Kalambo Falls.” In (J. Desmond Clark, Ed.): *Kalambo Falls Prehistoric Site, Volume 3*. Cambridge: Cambridge University Press. Pp. 600-604. By Nicholas Toth.
- 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 “Cutmarks on a Plio-Pleistocene Hominid From Sterkfontein, South Africa.” *American Journal of Physical Anthropology* **111**:579-584. By T. Pickering, T. White, and N. 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.
- 2000 “Origin and Development of Tool-Making Behavior in Africa and Asia.” *Human Evolution* **15**:151-158. By Kathy Schick and Nicholas Toth.
- 1999 “The Lithic Industry: The Archaeological Evidence for the Human Capacity for Culture.” In (Donald Johanson and Giancarlo Ligabue, Eds.): *Ecce Homo: Writings in Honor of Third-millenium Man*. Venice: Casa Editrice Electra. Pp. 176-203. By N. Toth and K. Schick.

- 1999 "Continuing Investigations into the Stone Tool-Making and Tool-Using Capabilities of a Bonobo (*Pan paniscus*).” *Journal of Archaeological Science* 26: 821-832. By K. Schick, N. Toth, G. Garufi, E.S. Savage-Rumbaugh, D. Rumbaugh, and R. Sevcik.
- 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. Marzke, N. Toth, K. Schick, S. Reece, B. Steinburg, K. Hunt, R. Linscheid, and K'N An.
- 1997 "Chapter Seven: The Artefact Assemblages in the Light of Experimental Studies.” In (G. Isaac and B. Isaac, Eds.): *Koobi Fora Research Project, Volume 5: Plio-Pleistocene Archaeology*. Oxford: Oxford University Press. Pp. 363-401. By Nicholas Toth.
- 1997 Articles, *Oxford Companion to Archaeology*, Brian M. Fagan, Ed.): "Louis and Mary Leakey," "The Archaeology of Human Origins," "Primitive Technology". New York: Oxford University Press. By Nicholas Toth and Kathy Schick.
- 1997 "An Experimental Investigation into the Nature of Faceted Limestone 'Spheroids' in the Early Palaeolithic.” *Journal of Archaeological Science* 24:701-713. By Mohamed Sahnouni, Kathy Schick, and Nicholas Toth.
- 1997 "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 "Stone Age Tools.” *Dragonfly* 2(2):8-11. Washington, D.C.: National Science Teachers Association. By Nicholas Toth and Kathy Schick.
- 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 (Theodore Celenko, Ed.): *Egypt in Africa*. Indianapolis: Indianapolis Museum of Art and Indiana University Press. Pp. 20-22. By Kathy Schick and Nicholas Toth.
- 1995 "The Archaeology of Human Origins in Africa.” In (Shun'ya Hino, Ed.): *Proceedings of the African/American/Japanese Scholars Conference for Cooperation in the Educational, Cultural, and Environmental Spheres in Africa*. Tokyo: Tokyo University of Foreign Studies. Pp. 327-349. By Nicholas Toth.
- 1994 "Early Stone Age Technology in Africa: A Review and a Case Study into the Nature and Function of Spheroids and Subspheroids.” In (R. Corruchini 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 Kathy Schick and

NicholasToth.

- 1994 “Study of Refitting Stone Artifacts Unearthed in 1986 at Cenjiawan Site (800,000 years ago).” *Journal of Chinese Antiquity* **3**: 86-102. By Xie Fei, Kathy Schick, Nicholas Toth, and J. Desmond Clark.
- 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 “ESR Dating Tooth Enamel from the Paleolithic Site at Longola, Zambia.” *Applied Radiation and Isotopes* **44**: 253-260. By B. Blackwell, H. Schwarcz, K. Schick, and N. Toth.
- 1992 “Early Stone Industries and Inferences Regarding Language and Cognition.” In *Tools, Language and Cognition*, ed. by K. Gibson and T. Ingold. Cambridge: Cambridge University Press. Pp. 346-362. By Nicholas Toth and Kathy Schick.
- 1992 “The Last Stone Axe-Makers.” *Scientific American* 267(1):88-93. By N.Toth, J.D. Clark and G. Ligabue.
- 1991 “The Material Record.” In (T.D. Dillehay and D.J. Meltzer, Ed.), *The First Americans: Search and Research*. Boca Raton: CRC Press. Pp. 53-76. By Nicholas Toth.
- 1991 “The Importance of Experimental Replicative and Functional Studies in Palaeolithic Archaeology.” In (J.D. Clark, Ed.), *Cultural Beginnings: Approaches to Understanding Early Hominid Life-Ways in the African Savanna*. Bonn: Dr. Rudolf Habelt GMBH, Monographien, Band 19. Pp. 109-124. By Nicholas Toth.
- 1991 “Archaeological Perspectives in the Nihewan Basin, China.” *Journal of Human Evolution* **21**:13-26. By K. Schick, N. Toth, Wei Qi, J.D. Clark, and D. Etler.
- 1991 “The Question of Ritual Cannibalism at Grotta Guattari.” *Current Anthropology* **32**: 118-138. By T. White and N. Toth.
- 1991 “Experimental Archaeology: Journeying into Prehistory.” *Ligabue Magazine* **19**:64-83. By Nicholas Toth and Kathy Schick.
- 1990 “The Prehistoric Roots of a Human Concept of Symmetry.” In *Symmetry: Culture and Science* **1**(3):257-281. By Nicholas Toth.
- 1989 “Molluscan Shell Knives and Experimental Cut-Marks on Bones.” *Journal of Field Archaeology* **16**: 250-255. By Nicholas Toth and Michael Woods.

- 1989 "Engis: Preparation Damage, not Ancient Cutmarks." *American Journal of Physical Anthropology* **78**: 361-367. (By Tim White and Nicholas Toth.
- 1989 "An Early Palaeontological Assemblage as an Archaeological Test Case." In *Bone Modification*, ed. by R. Bonnicksen and M.H. Sorg. Orono, Maine: Center for the Study of the First Americans. By K. Schick, N. Toth, and T. Daeschler.
- 1988 *The Encyclopedia of Human Evolution and Prehistory*. c. 30 entries. Ed. J. Couvering, E. Delson, I. Tattersal. New York: Garland Press. By N. Toth and K. Schick.
- 1987 "Behavioral Inferences from Early Stone Age Assemblages: an Experimental Model." *Journal of Human Evolution* **16**:763-787. By Nicholas Toth.
- 1987 "The First Technology." *Scientific American* **255** (4):112-121. By Nicholas Toth.
- 1986 "The First Million Years: the Archaeology of Protohuman Culture." *Advances in Archaeological Method and Theory* **9**:1-96. By Nicholas Toth and Kathy Schick.
- 1985 "The Oldowan Reassessed: a Close Look at Early Stone Artifacts." *Journal of Archaeological Science* **12**:101-120. By Nicholas Toth.
- 1985 "Archaeological Evidence for Preferential Right-Handedness in the Lower and Middle Pleistocene, and its Possible Implications." *Journal of Human Evolution* **14**:607-614. By Nicholas Toth.
- 1985 "Use-Wear Analysis of Paleoindian Unifaces from the Initial Late-Glacial Occupation at the Indian Creek Site." *Current Research in the Pleistocene* **2**:45-46. By Nicholas Toth.
- 1983 "The Cutting Edge: an Experimental Elephant Butchery with Stone Tools." *Interim Evidence* **5**:8-10. By N. Toth and K. Schick.
- 1982 *The Stone Technologies of Early Hominids at Koobi Fora, Kenya: An Experimental Approach*. Ph.D. dissertation, University of California, Berkeley. Ann Arbor: University Microfilms.
- 1981 "Microwear Polishes on Early Stone Tools from Koobi Fora, Kenya." *Nature* **293**:464-465. By L. Keeley and N. Toth.
- 1980 "FxJj50: an Early Pleistocene Site in Northern Kenya." *World Archaeology* **12** (2):109-136. By H. Bunn, J. Harris, G. Isaac, Z. Kaufulu, E. Kroll, K. Schick, N. Toth, and A.K. Behrensmeyer.

Field Work and Research/Laboratory Studies:

- 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 Kathy Schick.
- 1990-Present Ongoing experimental studies of stone tool manufacture and use by pygmy chimpanzees (bonobos or *Pan paniscus*). Language Research Center, Atlanta, and Great Ape Trust, Des Moines, Iowa.
- 1999 Gona, Ethiopia. Investigations into early hominid archaeology and palaeoanthropology.
- 1998 Middle Awash, Ethiopia. Investigations into early hominid archaeology and palaeontology.
- 1997 PET (Positron emission tomography) investigation of brain activity associated with stone tool-making (pilot study). Department of Radiology, Indiana University Medical School, Indianapolis. With Gary Hutchins, Kathy Schick, Dietrich Stout, and Julie Stout.
- 1996 Further 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.
- 1996 Nihewan Basin, northern China. Co-Director, Collaborative Archaeological Investigations in the Nihewan Basin. Excavation, survey, and artifact analysis. Funded by Research Grant from the National Science Foundation.
- 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.
- 1992 Nihewan Basin, northern China. Archaeology workshops for Chinese archaeologists, conducted at Zhoukoudian (Peking Man site), Beijing. (With Diane Gifford-Gonzalez and K. Schick).
- 1992 Nihewan Basin, northern China. Early Pleistocene archaeological excavation. (With J.D. Clark, K. Schick, and Wei Qi).
- 1991 Nihewan Basin, northern China. Early Pleistocene archaeology. (With J.D. Clark, K. Schick, and Wei Qi).
- 1991 Yunnan Province, southern China. Ethnoarchaeological studies of bamboo-use among the Kucong, a minority group. (With J.D. Clark, K. Schick, and Peng Nanling).

- 1990 Irian Jaya, New Guinea. Ethnoarchaeological studies of stone axe-makers. (With J.D. Clark and G. Ligabue).
- 1990 Nihewan Basin, northern China. Early Pleistocene archaeology. (With J.D. Clark, K. Schick, and Wei Qi).
- 1990 Language Research Center, Atlanta. Initiation of experimental stone technology studies with a bonobo (*Pan paniscus*). (With K. Schick, S. Savage-Rumbaugh, D. Rumbaugh, and R. Sevcik).
- 1989 Nihewan Basin, northern China. Early Pleistocene archaeology (With J.D. Clark, K. Schick, and Wei Qi).
- 1988 Zambia, Central Africa. Archaeological survey, excavation, and experimental archaeology. (With K. Schick).
- 1986 Africa, Asia, Europe. Taphonomic studies of early hominid fossils. (With T. White).
- 1985 Jordan. Excavation of a modern striped hyaena den and archaeological reconnaissance. (With K. Schick).
- 1984 Mojave Desert, California. Taphonomic excavations of a Miocene fossil mammal locality. (With K. Schick and T. Daeschler).
- 1983 Ambrona, Spain. Archaeological research at a Middle Pleistocene Acheulean locality. (With F.C. Howell and K. Schick).
- 1982 Lake Natron, Tanzania. Archaeological research of early Pleistocene archaeological and palaeontological occurrences. (With G. Isaac and K. Schick).
- 1981 Ambrona, Spain. Archaeological research at a Middle Pleistocene Acheulean site. (With F.C. Howell, L. Freeman, and K. Schick).
- 1977-1980 Koobi Fora, East Turkana, northern Kenya. Archaeological research and experimental archaeology at Plio-Pleistocene sites. (With G. Isaac and K. Schick).
- 1973-1976 Ohio. Excavations at prehistoric localities with Woodland, Archaic, and Palaeoindian components.

Special Training:

Scanning Electron Microscopy Laboratory, Department of Zoology, U.C. Berkeley, 1984.

Analytical Techniques of Forensic Science, U.C. Berkeley, 1982.

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

Lithic Microwear Analysis, University of Illinois, Chicago, 1980, with Lawrence Keeley.

Lithic Technology Fieldschool, Washington State University, 1978, with Jeffrey Flenniken.

Fellowships, Awards, 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.

2003 Elected Fellow of the American Association for the Advancement of Science.

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.

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.

2000 Department of Health and Human Services. Investigations into Ape Stone Tool-Making Capabilities. Subcontracted within grant for "Studies of Language, Cultures, and Tools." Amount of award: \$28,908. Co-Investigator, with Kathy Schick.

2000 Louis Leakey Memorial Lecture, California Academy of Sciences, San Francisco, California in February.

1997 Distinguished Faculty Research Lecture Award, awarded by the Research and University Graduate School and Office of the Vice President for Academic Affairs and Bloomington Chancellor. Award received jointly with Kathy Schick.

1995-1997 National Science Foundation Grant of \$69,980 for archaeological research in China. Project Title: "Archaeological Investigations in the Nihewan Basin, China." Project Directors: Nicholas Toth and Kathy Schick.

- 1993 L.S.B. Leakey Foundation. Funding to bring African scholars to the SAfA (Society of Africanist Archaeologists Biannual Meetings, Bloomington, April, 1994).
- 1992 Wenner-Gren Foundation for Anthropological Research. Continued studies of stone tool-making and tool-using abilities of a bonobo (pygmy chimpanzee).
- 1990 National Academy of Sciences, Council on Scholarly Exchange with the Peoples' Republic of China. Research visit to China.
- 1987 Fulbright Research Fellowship award by the Council for International Exchange of Scholars. Archaeological research. Africa Research Program for Zambia.
- 1987 Research grant awarded by the Joint Committee on African Studies of the Social Science Research Council (S.S.R.C.) and the American Council of Learned Societies. For archaeological research in Zambia.
- 1985-86 Harry Frank Guggenheim Fellowship. For world-wide investigation on trauma and human aggression. Africa, Asia, and Europe.
1985. L.S.B. Leakey Foundation Fellowship. For taphonomic excavations in Jordan.
- 1984 L.S.B. Leakey Foundation Fellowship. For taphonomic excavations, Mojave Desert.
- 1982 NSF research grant. For archaeological research at Peninj, Tanzania.
- 1981 NSF research grant, For archaeological research at Ambrona, Spain.
- 1981 L.S.B. Leakey Foundation Fellowship. For microwear investigations of early stone age tools.
- 1978 Robert Lowie Scholarship. U.C. Berkeley.
- 1977-1981 NSF research grants. For palaeolithic research at Koobi Fora, Kenya.

Professional Societies:

American Association for the Advancement of Science
 Society of Africanist Archaeologists (Secretary, 1992-1994)
 Palaeoanthropology Society
 Archaeological Institute of America
 American Anthropological Association
 Society for American Archaeology
 Sigma Xi Research Society
 International Society for the Study of Symmetry

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 Kathy Schick.
- 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, 12th Biennial International Conference. Bloomington (with Kathy Schick).
- 1987 "The Quest For Our Ancestors". Conference on human origins, October 16-18th. Indiana University. (With Frances Muir of the L.S.B. Leakey Foundation and Kathy Schick.)

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 Kathy Schick. 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.
- 1995 "Images from the Field: An Archaeological Camera." Photo exhibition. (With Kathy Schick).
- 1987 "The Rise of Humankind". William Hammond Mathers Museum, Indiana University. Human origins. (With Kathy Schick and Jeanne Sept.)
- 1987 "Before and After Darwin". Lilly Library. History of evolutionary thought.
- 1987 "Masterpieces of the Early Stone Age". I.U. Art Museum. Early stone age artifacts.

Papers Presented 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 "The Origin of the genus Homo and the Dawn of Technology." 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.
- 2009 Institute of Vertebrate Palaeontology and Palaeoanthropology, Beijing, China.
- 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 “Further Investigations into the Oldowan: Lessons from the Prehistoric Record,

- Experimental Archaeology, and Apes.” Paper at invited Symposium: “Interdisciplinary Approaches to Understanding the Oldowan,” Society for American Archaeology annual meeting, Puerto Rico. By Nicholas Toth and Kathy Schick.
- 2006 “A Quantitative Assessment of Mode 1 Knapping Skill”. Paper at invited Symposium: “Interdisciplinary Approaches to Understanding the Oldowan,” Society for American Archaeology annual meeting, Puerto Rico. By Dietrich Stout, Kathy Schick, and Nicholas Toth.
- 2006 “New Finds and Research from the Stone Age Institute.” Archaeological Institute of America, Stanford University. By Nicholas Toth and Kathy Schick.
- 2005 “Measuring Levels of Skill in Oldowan Tool-making: Insights from *Pan*, *Australopithecus*, and *Homo sapiens*. Paper at conference, “New Approaches to the Earliest Stone Age,” Stone Age Institute, Bloomington, Indiana. By Kathy Schick, Nicholas Toth, and Sileshi Semaw.
- 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, Ohio.
- 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.
- 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.
- 2003 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.
- 2002 “A Technological Comparison of the Stone Tool-Making Capabilities of *Australopithecus*/early *Homo*, *Pan paniscus*, and *Homo sapiens*, and possible evolutionary implications.” By Nicholas Toth, Kathy Schick, and Sileshi Semaw.
- 2002 “Recent Discoveries from Gona, Afar, Ethiopia.” By Sileshi Semaw, Kathy Schick,

Nicholas Toth, Scott Simpson, Jay Quade, Michael Rogers, Paul Renne, Dietrich Stout, and Manuel Dominquez-Rodrigo.

- 2002 "The Role of Rock: Origins of Human Technology." Iowa Academy of Science Annual Lecture.
- 2000 "Making Silent Stones Speak." Annual L.S.B. Leakey Memorial Lecture, California Academy of Sciences, San Francisco.
- 2000 "Recent Experimental Approaches to the Early Stone Age, and Behavioral Implications for Early Hominids." In *Cultural Evolution: from Pan to Homo*," Second Colloquium before the Fifth World Congress of Human Paleontology (UNESCO International Association for the Study of Human Paleontology), Barcelona. By Nicholas Toth and Kathy Schick.
- 2000 "*Pan* the Tool-Maker: Insights on the Early Stone Age from Experimental Studies of Ape Stone Tool-Making." . In *Cultural Evolution: from Pan to Homo*," Second Colloquium before the Fifth World Congress of Human Paleontology (UNESCO International Association for the Study of Human Paleontology), Barcelona. By Kathy Schick and Nicholas 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
- 1997 "Hard hammer percussion manufacture of tools and early homind hand morphology." Paleoanthropology Society Annual Meeting, St. Louis. By Mary Marzke, Nicholas Toth, Kathy Schick, Sandra Reece, Ben Steinberg, Kevin Hunt, Ronald Linscheid, and K-N An.
- 1997 "Sidescraping, endscraping and the hominid hand." Paleoanthropology Society Annual Meeting, St. Louis. By Sandra Reece, Ben Steinberg, Mary Marzke, Nicholas Toth, Kathy Schick, Kevin Hunt, Ronald Linscheid, and K-N An.
- 1996 "The Earliest Archaeological Assemblages in Northern China". By Nicholas Toth, Kathy Schick, and J. Desmond Clark. Society for American Archaeology, Annual Meeting, New Orleans. Presented at invited symposium, "Core and Flake Tool Assemblages: Coming to Terms with the 'Other' Industries of the Middle Pleistocene". (Paper given by N. Toth).
- 1995 "The Dawn of Human Technology." L.S.B. Leakey Foundation Symposium, Denver Museum of Natural History.
- 1994 "Archaeological and Biological Approaches to the Early Stone Age." Joint Session of the Palaeoanthropology Society and the Society for American Archaeology, Anaheim, California.

- 1994 "Quartz Technology in the Early Stone Age." Society of Africanist Archaeologists 12th Biennial Conference, Bloomington.
- 1994 "Archaeological and Biological Approaches to the Early Stone Age." Paleoanthropology Society/Society of American Archaeology, Special Joint Session, Anaheim, California.
- 1994 "Novel Features and Biocultural Patterns in Human Evolution." Colloquium on Molecular Biology and Evolutionary Biology, Indiana University.
- 1993 "Human Origins Research in Africa: The archaeology of technological beginnings." Paper presented at the African/American/Japanese Scholars Conference for Cooperation in the Educational, Cultural and Environmental Spheres in Africa, at the Tokyo University of Foreign Studies.
- 1993 "Form and Function: A Case Study from Olduvai Gorge." Presented at the Conference: "Four Million Years of Human Evolution: Papers in Honor of Mary Leakey". Arusha, Tanzania.
- 1992 "Raw Material and Artifact Form at Olduvai Gorge, Tanzania: A Case Study." American Anthropological Association, San Francisco.
- 1992 "Pan the Tool-Maker." Annual Meeting of the Palaeoanthropology Society, Pittsburgh.
- 1992 "Stone Technology and Land-use Patterns in the Early Stone Age: A Case Study." Biennial Conference of the Society of Africanist Archaeologists in April in Los Angeles. (By K. Schick and N. Toth).
- 1991 "Experiments in Bonobo Stone Technology." Presentation at the Understanding Chimpanzees Conference, December 1991, Chicago Academy of Sciences.
- 1991 "Ethnoarchaeology: Adze Makers in New Guinea." Paper presented at the Conference on Lithic Technology, sponsored by the University of Kentucky College of Arts and Sciences and the Graduate School, and the Kentucky Heritage Council. Lexington, Kentucky, Dec. 7.
- 1991 "Experimental Investigations into Palaeolithic Technology." Paper presented at the XIII International Congress of the International Union for Quaternary Research (INQUA), Beijing, China. August 2-9.
- 1991 "Early Stone Technologies and Linguistic/Cognitive Inferences." Paper presented at the annual meeting of the American Association for the Advancement of Science, Washington, D.C.

- 1990 Participation in International Symposium on "Tools, Language and Intelligence: Evolutionary Implications," sponsored by the Wenner-Gren Foundation for Anthropological Research, Cascais, Portugal, March 16-24.
- 1989 "The Prehistoric Roots of a Concept of Symmetry." Paper presented at the International Symposium on Symmetry, Budapest, Hungary.
- 1987 The Workshops of Eden: Origins of Human Technology. In the "Quest for Our Ancestors" conference, Indiana University.
- 1987 The Roots of Human Aggression. Annual Meeting of the American Association of Political Scientists. Chicago.
- 1987 Experiments Towards Understanding Skill, Mind, and Function in Early Hominid Contexts in East Africa. In Commission 5, "The Oldest Industries and Early Hominids in Africa", XI Congress of the Union Internationale des Sciences Prehistoriques et Protohistoriques (UISPP). Mainz, Germany.
- 1987 Organizational Skills and Paleolithic Site Patterns. In Society for American Archaeology Symposium, "Dixie Cups and Crown Jewels: Analytical Approaches to the Organizational Properties of Stone Tool Technologies." Toronto.
- 1986 Behavioral Models from the Early Stone Age. American Anthropological Association meetings, Philadelphia. In Symposium in Honor of Glynn Isaac.
- 1986 Experimental Investigations of early stone technology. International Conference in Honor of J. Desmond Clark. Berkeley, California.
- 1984 Taphonomic Studies of a Miocene Palaeontological Site: an Archaeological Test Case. Society for Vertebrate Palaeontology, Berkeley.
- 1983 By the Evidence: Critically Assessing Claims for the Early Occupation of the New World. L.S.B. Leakey Foundation Symposium, Pasadena.
- 1982 Experimental Research into Human Origins. First International Congress on Human Palaeontology, Nice France.
- 1982 Workshop on Microwear Analysis. Conducted for the American Society for African Archaeology. Berkeley.
- 1981 The Archaeology of Early Man. Symposium on human evolution, U.C.L.A.
- 1981 Ice Age Man: Artist: Artist or Artisan? L.S.B. Leakey Foundation, Eureka and Fort Bragg, California.
- 1981 Experimental Research into Early Hominid Behavior and Adaptation. Society for American Archaeology, San Diego.

- 1980 Early Technology at Koobi Fora, Kenya. Louis Leakey Institute, Nairobi, Kenya.
- 1977 The Impact of Throwing in Human Evolution. Kroeber Anthropological Society meeting, Berkeley.

Other Lectures and Talks:

- 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, Indiana.
- 2007 Continuing Studies, Indiana University, Bloomington, Indiana.
- 2006 Rotary Club, Bloomington, Indiana.
- 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.
- 2006 Indiana Geological Survey
- 2006 Department of Psychology, Indiana University
- 2006 School of Informatics, Indiana University
- 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 Talk for Bloomington Chamber of Commerce.
- 2002 Bowers Museum of Cultural Art, Santa Ana, California.
- 2002 Iowa Academy of Sciences, Des Moines, Iowa.
- 2002 Bloomington Chamber of Commerce.
- 2000 University of Iowa, Department of Anthropology.
- 1999 Georgia State University, Department of Psychology.
- 1999 Miami University, Department of Anthropology.
- 1998 Duke University, Department of Anthropology.
- 1997 Art & Anthropological Tours (Spain & France).
- 1997 University of Massachusetts, Amherst.
- 1997 Department of Integrative Biology, University of California, Berkeley.
- 1997 Niagara Falls Chapter of the Archaeological Institute of America.
- 1997 Parkersburg, West Virginia. Ohio Valley Chapter of the Archaeological Institute of America.
- 1997 Department of Biological Anthropology and Anatomy, Duke University.
- 1997 IUPU Columbus, Indiana. Breakfast with Scholars Program.
- 1997 Sigma Xi Research Society, Bloomington, Indiana.
- 1996 Institute of Vertebrate Paleontology and Paleoanthropology, Beijing.
- 1996 Beijing University, Institute of Archaeology.
- 1995 Department of Anthropology, University of Illinois, Urbana-Champaign.
- 1994 Notre Dame University, Department of Anthropology.
- 1993 Smithsonian Institution, Washington.
- 1993 American Museum of Natural History, New York.
- 1993 Field Museum of Natural History, Chicago.

1993 Los Angeles County Museum of Natural History.
1993 Fellows' Event, Los Angeles County Museum.
1993 Santa Barbara Museum of Natural History.
1993 San Diego Museum of Man.
1993 Bohemian Club Museum Series, California.
1993 California Academy of Science.
1993 I.U. Geology Department
1992 I.U. Biology Department
1993 University of Minnesota, Minneapolis.
1993 University of Wisconsin, Milwaukee.
1993 Valparaiso College, Indiana.
1992 University of Michigan, Ann Arbor.
1992 I.U. Biology Dept. Guest lecture for Biology L111.
1991 University of Florida.
1991 University of Georgia.
1991 University of North Carolina.
1990 Indiana University, Indianapolis.
1990 Reality Club, New York City.
1990 Drew University, New Jersey.
1989 Suny Stonybrook.
1989 Genentech Corporation. San Francisco.
1989 University of Algiers.
1988 Indianapolis Archaeological Society.

- 1988 Livingstone Museum, Zambia.
- 1988 Brooklyn High School, Ohio
- 1987 Miami University, Oxford, Ohio. Landscapes Memorial Lecture.
- 1987 University of Illinois, Urbana-Champaign.
- 1987 University of Indianapolis. Convocation Speaker.
- 1986 Suburban Kiwanis Club, Bloomington.
- 1986 Wabash Valley Archaeological Society, Annual Dinner Meeting.
- 1986 Transvaal Museum.
- 1985 Northern California Scientific Writers' Association. San Francisco, California.
- 1985 National Archaeological Museum, Madrid.
- 1985 American Center of Oriental Research, Amman, Jordan.
- 1985 Department of Archaeology, University of Capetown.
- 1985 Institute of Archaeology, London.
- 1985 Commonwealth Club of California, San Francisco. (Broadcast live via satellite over the National Public Radio Network).
- 1985 Institute of Human Origins, Berkeley.
- 1984 Stanford University. Department of Political Science.
- 1984 U.C. Berkeley. Department of Political Science.
- 1983 U.C. Santa Cruz. Department of Anthropology.
- 1983 Xerox Corporation. Palo Alto, California.
- 1982 Yale University. Department of Anthropology.
- 1982 The Sorbonne, Paris. Department of Archaeology.
- 1982 C.N.R.S., Marseille. Department of Anthropology.
- 1981 U.C.L.A. Department of Anthropology.

- 1980 Cuyahoga Community College, Ohio. Department Social Sciences.
- 1980 Louis Leakey Memorial Institute, Nairobi.
- 1979 Oxford University. Department of Anthropology.
- 1978 Stanford University. Department of Anthropology.

Related Archaeological and Geological Studies Abroad:

- 2007 Iceland. Study of volcanics.
- 2007 Dmanisi, Republic of Georgia. Study of Plio-Pleistocene archaeology.
- 2006 Great Ape Research Institute, Yokohama, Japan. Chimpanzee research.
- 2006 Arago, France. Middle Pleistocene archaeology.
- 2003 Hawaii. Study of volcanics.
- 2002 Grand Canyon, Meteor Crater. Geological study.
- 2000 Saudi Arabia: Visit to discuss research possibilities.
- 1999 Addis Ababa, Ethiopia: Analysis of materials from Gona, Ethiopia.
- 1998 Visits to Palaeolithic archaeological sites in Spain and France, including Atapuerca, Fontchevade, and La Quina.
- 1997 Addis Ababa, Ethiopia. Analysis of archaeological materials from the Middle Awash.
- 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 Kathy Schick.
- 1993 Tour of prehistoric localities at Olduvai Gorge, Tanzania
- 1989 Study visit to the early stone age site of Yaramburgas, Turkey
- 1989, 1992 Study visit to the early stone age site of Ain Hanech, Algeria
- 1986 Study visits to prehistoric sites of Sterkfontein, South Africa;

Giza, Egypt; Ubeidiya, Tabun, and Kebara, Israel; Bilsingsleben, East Germany.

- 1985 Study visit to prehistoric sites of Swartkrans, Sterkfontein, and Die Kelders, South Africa
- 1985 Tour of archaeological site localities in Cantabria, Spain. With Drs. Victoria Cabrera and Frederico Bernaldo de Quiros, Centro de Investigaciones y Museo de Altamira.
- 1983 Study visit to Lower Palaeolithic site of Arago Cave and the Arago Museum and laboratory. With Henry de Lumley, Project and Museum Director.
- 1982 Tour of French Palaeolithic sites: Lascaux, Laugerie Haute, Abri Pautaud, Rouffignac, les Combarelles, Regourdou, Lunel Viel, and the Les Eyzies Museum. With E. Bonnifay, C.N.R.S., Luminy, Marseille, France.
- 1982 Olduvai Gorge, Tanzania. Tour with Tanzanian Department of Antiquities representatives.
- 1980 Visits to archaeological sites in Athens and Rome. 1977-1980 Visits to East African prehistoric sites: Ologessailie, Kariandusi, and Lukeinya Hill.
- 1977 Visit to Pech de l'Aze and Les Eyzies, France. Tour by Drs. Francois Bordes and Denise de Sommeville Bordes.
- 1973, 1974, 1977 Visits to British archaeological sites: Stonehenge, Windmill Hill, Silbury Hill, West Kennet, Woodhenge, Durrington Walls, Avebury, Wayland's Smithy, Glastonbury, Bath, York, and Grimes Graves.
- 1973 Visits to Adena and Hopewell sites in Ohio, Serpent Mound, Fort Ancient, Mound City, Seip Mound, Newark Earthworks, and Miamisburg Mound.

Consultation/Media:

- 2010 Interview with New York Times
- 2008 Granada Television, England
- 2007 Swedish National Television
- 2007 NHK, Japanese National Television
- 2006 WTIU story on the Stone Age Institute, Bloomington, Indiana
- 2005 Filming for National Geographic Television "Naked Science" series. Filmed at

Stone Age Institute, Bloomington

- 2005 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 Institute.
- 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.
- 1999 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).
- 1997 Interview in The Washington Post.
- 1996-1997 National Geographic. Articles on "The Dawn of Humans".
- 1995 Research featured in Science Section of The New York Times.
- 1995 Radio Interview on experimental approaches to prehistory for National Public Radio, University of Wisconsin (with Kathy Schick).
- 1995 Interview for American Airlines magazine, American Way.
- 1995 Consultant for *Egypt in Africa* exhibition, Indianapolis Museum of Art.
- 1994-5 Consultant for *Tools Through Time* in new exhibit, *Think Tank*, for the National Zoological Park, Smithsonian Institution.
- 1993 Museum of Mankind, San Diego. New exhibit hall of human evolution.
- 1993 Granada Television/Arts & Entertainment Network. 4-part television series ("Ape/Man") on human evolution, hosted by Walter Cronkite. Filming in Kenya and Indiana.

- 1993 NHK (Japanese Television). 4-part television series on the evolution of the human brain.
- 1992 NHK (Japanese Television). Television special about Kanzi (pygmy chimpanzee).
- 1991 Nova. 3-part television series on human evolution, hosted by Donald Johanson.
- 1988 Children's Television Network ("3-2-1 Contact"). Television program on human origins and stone tools.
- 1987 National Geographic Television. Television special "Mysteries of Mankind" on human origins.
- 1986 National Public Radio. Interview on my research.
- 1985 CNN. Interview on my experimental work.
- 1985 Commonwealth Club of California. Talk "The Technological Ape". National Public Radio address.
- 1985 National Geographic Magazine. Issue on human evolution.
- 1980 BBC Television. 7-part television series "The Making on Mankind" on human evolution. Filmed making early stone tools. Hosted by Richard Leakey.