

Curtis William Marean

1/2008

DATE OF BIRTH: 23 July, 1960

BUSINESS ADDRESS: Institute of Human Origins, School of Human Evolution and Social Change, PO Box 872402, Arizona State University, Tempe, AZ 85287-2402.

COMMUNICATIONS: business phone = 480-965-7796, business fax = 480-965-1386, e-mail = curtis.marean@asu.edu

RESEARCH INTERESTS: African Stone Age, paleoanthropology, zooarchaeology, taphonomy, paleoecology, paleoenvironments, paleoclimatology, human ecology, and past and present hunters and gatherers.

DISSERTATION TITLE: Late Quaternary Paleoenvironments and Faunal Exploitation in East Africa (Advisor: J. Desmond Clark)

EDUCATIONAL BACKGROUND

University of California at Berkeley - Ph.D. August 1990.

University of California at Berkeley - entered September 1983, M.A. awarded May 1985.

Pennsylvania State University - entered 1978 and graduated with a BA in Anthropology with High Distinction in May 1982.

Clements Scholar at Fort Burgwin Archaeological Research Center, a division of Southern Methodist University, summer of 1981.

Stroudsburg High School - graduated 1978

EMPLOYMENT HISTORY

Professor of anthropology and Institute of Human Origins, Arizona State University, 2001-present

Associate professor of anthropology, SUNY at Stony Brook 1996-2001

Assistant professor of anthropology, SUNY at Stony Brook 1990-1995

PEER REVIEW PUBLICATIONS

C. W. Marean, M. Bar-Matthews, J. Bernatchez, E. Fisher, P. Goldberg, A. I.R. Herries, Z. Jacobs, A. Jerardino, P. Karkanas, N. Mercier, T. Minichillo, P. J. Nilssen, E. Thompson, C. Tribolo, H. Valladas, I. Watts, and H. M. Williams. (2007). Early human use of marine resources and pigment in South Africa during the Middle Pleistocene. *Nature* 449: 905-908.

J. Tyler Faith, C. W. Marean, and Anna K. Behrensmeier (2007). Carnivore Competition, Bone Destruction, and Bone Density. *Journal of Archaeological Science* 34: 2025-2034.

Invited paper - N. Cleghorn and C. W. Marean (2007). "The destruction of human-discarded bone by carnivores: the growth of a general model for bone survival and destruction in zooarchaeological assemblages." *African Taphonomy: A Tribute to the Career of C.K. "Bob" Brain*, edited by T.R. Pickering, N. Toth, and K. Schick. Stone Age Press, Bloomington, pp. 13-42.

Catherine Bird, Tom Minichillo, and C. W. Marean. (2007). Edge damage distribution at the assemblage level on Middle Stone Age lithics: an image-based GIS approach. *Journal of Archaeological Science* 34: 771-780.

William E. Banks, Francesco d'Errico, Harold Dibble, Leonard Krishtalka, Dixie West, David Anderson, A. Townsend Peterson, Michel Crucifix, J. Christopher Gillam, C. W. Marean, María-Fernanda Sánchez-Goñi, Barbara Wohlfarth. (2006). Old Questions, New Tools: Exploring the Potential of Eco-Cultural Niche Modelling for Reconstructing the Geography and Ecology of Past Human Populations. *Journal of Paleoanthropology* 4:68-83.

Invited paper – C. W. Marean (2005). “From the tropics to the colder climates: contrasting faunal exploitation adaptations of modern humans and Neanderthals”. In *From Tools to Symbols. From Hominids to Modern Humans*, edited by F. D'Errico and L. Backwell, Witwatersrand University Press: Johannesburg, pp 333-371.

Invited paper - C.W. Marean and Z. Assefa (2005). “The Middle and Upper Pleistocene African Record for the Biological and Behavioral Origins of Modern Humans.” In *African Archaeology. A Critical Introduction*, edited by Ann Stahl. Blackwell Press: New York, pp 93-129.

Invited paper - C. W. Marean, M. Domínguez-Rodrigo, and T. R. Pickering (2004). “Skeletal element equifinality in zooarchaeology begins with method: The evolution and status of the “shaft critique”. *Journal of Taphonomy* 3: 69-98.

Invited paper - N. Cleghorn and C. W. Marean (2004). “Distinguishing Selective Transport and *In Situ* Attrition: A Critical Review of Analytical Approaches”. *Journal of Taphonomy* 3: 43-67.

C. W. Marean, P. J. Nilssen, K. Brown, A. Jerardino, and D. Stynder. (2004). “Paleoanthropological investigations of Middle Stone Age sites at Pinnacle Point, Mossel Bay (South Africa): Archaeology and hominid remains from the 2000 Field Season” *Journal of Paleoanthropology* 2: 14-83.

C. Henshilwood and C.W. Marean (2003). “The origin of modern human behavior: A review and critique of the models and their test implications.” *Current Anthropology* 44:627-651.

Y.M. Lam, O.M. Pearson, C.W. Marean, and X. Chen (2003). “Bone density studies in zooarchaeology.” *Journal of Archaeological Science* 30: 1701-1708.

T.R. Pickering, C.W. Marean, and M. Domínguez-Rodrigo (2003). “Importance of limb bone shaft fragments in zooarchaeology: a response to "On in situ attrition and vertebrate body part profiles" (2002), by M.C. Stiner.” *Journal of Archaeological Science* 30: 1469-1482.

Invited paper - C.W. Marean and N.E. Cleghorn (2003). “Large mammal skeletal element transport: Applying foraging theory in a complex taphonomic system.” *Journal of Taphonomy* 1: 15-42.

P. Munson and C.W. Marean (2003). “Adults Only? A Re-consideration of Middle Paleolithic “Prime-dominated” Reindeer Hunting at Salzgitter Lebenstedt.” *Journal of Human Evolution* 44: 263-273.

Y. Abe, C.W. Marean, P. Nilssen, E. Stone, and Z. Assefa (2002). “The analysis of cutmarks on archaeofauna: A review and critique of quantification procedures, and a new image-analysis GIS approach.” *American Antiquity* 67: 643-663.

C. Henshilwood, F. D'Errico, C.W. Marean, R. Milo, and R. Yates (2001). “An early bone tool industry from the Middle Stone Age, Blombos Cave, South Africa: implications for the origins of modern human behaviour, symbolism and language.” *Journal of Human Evolution* 41: 631-678.

C.W. Marean, Y. Abe, P. Nilssen, and E. Stone (2001). “Estimating the Minimum Number of Skeletal Elements (MNE) in Zooarchaeology: a Review and a New Image-analysis GIS Approach.” *American Antiquity* 66: 333-

348.

C.W. Marean, editor. (2000) *The Middle Stone Age at Die Kelders Cave 1, South Africa*. Published as a special issue of the *Journal of Human Evolution* 38, 233 pages.

C.W. Marean (2000) "Preface: The Middle Stone Age at Die Kelders Cave 1, South Africa." *Journal of Human Evolution* 38: 3-5.

C.W. Marean, P. Goldberg, G. Avery, F. E. Grine, and R. G. Klein. (2000) "Middle Stone Age stratigraphy and excavations at Die Kelders Cave 1 (South Africa): the 1992, 1993, and 1995 Field Seasons." *Journal of Human Evolution* 38: 7-42.

C.W. Marean, Y.A. Abe, C.J. Frey, and R. Randall. (2000). "Zooarchaeological and taphonomic analysis of the Die Kelders Cave 1 Layers 10 and 11 Middle Stone Age larger mammal fauna." *Journal of Human Evolution* 38: 197-233.

C.W. Marean and Z. Assefa (1999) "Zooarchaeological evidence for Neandertal and Early Modern Human faunal exploitation." *Evolutionary Anthropology* 8: 22-37.

L.E. Bartram and C.W. Marean (1999) "Explaining the "Klasies Pattern": Kua ethnoarchaeology, the Die Kelders Middle Stone Age archaeofauna, long bone fragmentation, and carnivore ravaging." *Journal of Archaeological Science* 26: 9-29.

C.W. Marean (1998) "A critique of the evidence for scavenging by Neandertals and early modern humans: new data from Kobeh Cave (Zagros Mousterian) and Die Kelders Cave 1 Layer 10 (South African Middle Stone Age)" *Journal of Human Evolution* 35: 111-136.

C.W. Marean and S. Y. Kim. (1998) "The Mousterian faunal remains from Kobeh Cave: Behavioral implications for Neanderthals and early modern humans." *Current Anthropology* 39: S79-S114.

Y.M. Lam, X. Chen, C.W. Marean and C.J. Frey. (1998) "Bone density and long bone representation in archaeological faunas: comparing results from CT and photon densitometry." *Journal of Archaeological Science* 25: 559-570.

C.W. Marean and C.J. Frey. (1997) "The bones from caves to cities: Reverse utility curves as methodological artifacts." *American Antiquity* 62: 698-711.

C.W. Marean. (1997) "Hunter-gatherer foraging strategies in tropical grasslands: Evidence from the East African Middle and Later Stone Age." *Journal of Anthropological Archaeology* 16: 189-225.

Avery, G., K. Cruz-Uribe, P. Goldberg, F. Grine, R.G. Klein, M.J. Lenardi, C.W. Marean, W. J. Rink, H.P. Schwarcz, A.I. Thackeray, and M.L. Wilson. (1997). "The 1992-1995 excavations at the Die Kelders Middle and Later Stone Age cave site, South Africa." *Journal of Field Archaeology* 24: 263-291.

Kimbel, W.H., R.C. Walter, D.C. Johanson, J.L. Aronson, Z. Assefa, G.C. Eck, E. Hovers, C.W. Marean, Y. Rak, K.E. Reed, C. Vondra, T. Yemane, R. Bobe-Quinteros. (1996) "Late Pliocene *Homo* and Oldowan Tools from the Hadar Formation (Kada Hadar Member) Ethiopia." *Journal of Human Evolution* 31: 549-561.

R. Blumenshine, C.W. Marean, and S. Capaldo. (1996) "Blind Tests of Interanalyst Correspondence and Accuracy in the Identification of Cutmarks, Percussion Marks, and Carnivore Tooth Marks on Bone Surfaces."

Journal of Archaeological Science 23: 493-507.

C.W. Marean and C.E. Ehrhardt. (1995). "Paleoanthropological and Paleoecological Implications of the Taphonomy of a Sabertooth's Lair." *Journal of Human Evolution* 28: 515-547.

C.W. Marean and Leanne Bertino. (1994). "Intrasite Spatial Analysis of Bone: Subtracting the Effect of Secondary Carnivore Consumers." *American Antiquity* 59: 748-768.

C.W. Marean, Nina Mudida, and Kaye E. Reed. (1994). "Paleoenvironmental Implications of Holocene Micromammalian Remains from Enkapune Ya Muto rockshelter (Central Rift, Kenya)." *Quaternary Research* 41: 376-389.

Invited paper - R.J. Blumenschine and C.W. Marean. (1993). "A Carnivore's View of Archaeological Bone Assemblages." In *From Bones to Behavior*, edited by Jean Hudson, pp. 273-300. Southern Illinois Press, Carbondale.

C.W. Marean. (1992). "Hunter to herder: Large mammal remains from the hunter-gatherer occupation at Enkapune Ya Muto rockshelter (Central Rift, Kenya)." *The African Archaeological Review* 10: 65-127.

C.W. Marean. (1992). "Implications of Late Quaternary Mammalian Fauna from Lukenya Hill (South-central Kenya) for Paleoenvironmental Change and Faunal Extinctions." *Quaternary Research* 37: 239-255.

C.W. Marean, L.M. Spencer, R.J. Blumenschine, and S. Capaldo. (1992). "Captive Hyena Bone Choice and Destruction, the Schlepp Effect, and Olduvai Archaeofaunas." *Journal of Archaeological Science* 19: 101-121.

C.W. Marean and D. Gifford-Gonzalez. (1991). "Late Quaternary Extinct Ungulates of East Africa and Palaeoenvironmental Implications." *Nature* 350: 418-420.

C.W. Marean. (1991). "Measuring the Post-depositional Destruction of Bone in Archaeological Assemblages." *Journal of Archaeological Science* 18: 677-694.

C.W. Marean and L.M. Spencer. (1991). "Impact of Carnivore Ravaging on Zooarchaeological Measures of Element Abundance." *American Antiquity* 56: 645-658.

C.W. Marean. (1989). "Sabertooth Cats and Their Relevance for Early Hominid Diet and Evolution." *Journal of Human Evolution* 18: 559-582.

C.W. Marean. (1986). "On the Seal Remains from Klasies River Mouth: An Evaluation of Binford's Interpretations." *Current Anthropology* 27: 365-367.

C.W. Marean. (1986). "Seasonality and Seal Exploitation in the South-western Cape, South Africa." *The African Archaeological Review* 4 (1986): 135-149.

C.W. Marean. (1985). "The Faunal Remains from Smitswinkelbaai Cave, Cape Province." *South African Archaeological Bulletin* 40: 52-55.

J.W. Michels and C.W. Marean. (1984). "A Middle Stone Age Occupation Site at Porc Epic Cave, Dire Dawa, (Ethiopia) - Part II, Obsidian Hydration Dating." *The African Archaeological Review* 2: 37-72.

PEER REVIEW PUBLICATIONS IN PRESS, IN REVIEW, OR IN PREPARATION

Invited paper in press - C. Peters, R. Blumenschine, P. Andrews, M. Armour-Chelu, R. Bernor, R. Bonnefille, R., C.W. Marean (nd). "Paleoecology - landscape evolution, origins of biodiversity, climate change." In *Serengeti III: Humans in Complex Ecosystem Processes and the Conservation of Biodiversity*, edited by T. Sinclair, C. Packer, M. Coughenour, S. Mduma. University of Chicago Press.

Invited paper under review – E. Thompson and C.W. Marean (nd). The Mossel Bay Lithic Variant: 120 years of Middle Stone Age research from Cape St. Blaize Cave to Pinnacle Point. *South African Archaeological Bulletin: Goodwin Series*.

PUBLICATIONS THAT ARE NOT PEER REVIEW

Invited paper - C.W. Marean. (2007). Heading North: An Africanist Perspective on the Replacement of Neanderthals by Modern Humans. In *Rethinking the Human Revolution*, edited by Paul Mellars, Katie Boyle, Ofer Bar-Yosef & Chris Stringer. McDonald Institute for Archaeological Research, Cambridge, pp 367-379.

H. Dibble, C.W. Marean and S. P. McPherron (2007) The use of barcodes in excavation projects. *SAA Archaeological Record* 7: 33-38.

Invited Comment – C.W. Marean (2006) comment on "Diet, mobility and settlement pattern among Holocene hunter-gatherers in southernmost Africa" by Judith Sealy. *Current Anthropology* 47: 587-588.

Abstract - C.W. Marean, M. Bar-Matthews, P.J. Nilssen, E.C. Fisher, A. Herries, P. Karkanas (2006) Paleoclimatic context of the origins of modern humans in South Africa: Based on speleothem isotopic records. *Geochimica et Cosmochimica Acta*, 70, A391.

Invited Paper - C.S. Henshilwood & C.W. Marean, (2006). Remodeling the origins of modern human behaviour. In : *The Prehistory of Africa* (ed. H. Soodyall). Jonathan Ball Publishers: Johannesburg: 31-48.

Book Review - *Man the Hunted: Primates, Predators, and Human Evolution* by Donna Hart and Robert W Sussman. *Journal of Human Evolution* 49 (2005): 779-780.

Fisher, E., Pyne, L., & Marean, C. W. (2005). 3D GIS Archaeology in South Africa. **GEO:Connexion**, 1-4.

Book Review - *Hunter and Hunted: Relationships between Carnivores and People*, by Hans Kruuk. *American Journal of Physical Anthropology* 124: 2004: 94-95.

C.W. Marean and J. C. Thompson (2003) "Research on the origins of modern humans continues to dominate paleoanthropology." *Evolutionary Anthropology* 12: 165-167.

Y. Abe and C.W. Marean. (2003) "Image-analysis software is the future of zooarchaeological methodology." *ICAZ Newsletter* 4: 3.

P.J. Nilssen and C.W. Marean (2002) "Background and results from test excavations of Middle Stone Age sites at Pinnacle Point, Mossel Bay. *Quaternary Research Centre Newsletter* 10: 1-2.

Book Review - *Meat Eating and Human Evolution*, by Craig Stanford and Henry Bunn. *American Journal of Human Biology* 14 (2002): 411-412

- Book Review** - *The Archaeology of Animal Bones*, by Terry O'Connor, *Quarterly Review of Biology* 76 (2001): 482-483.
- Book Review** - *Taphonomy: A Process Approach* by Ronald E. Martin, *American Antiquity* 66 (2001): 177-178.
- Abstract** - T. Minichillo and C. W. Marean (2000) "Behavioral ecological modeling and faunal resource use in the Middle and Later Stone Ages of southern Africa." *Journal of Human Evolution* 38: A22.
- Invited Perspective** - C.W. Marean (2000) "Age, sex, and old goats." *Science* 287: 2174-2175.
- C.J. Frey and C.W. Marean (1999) "Mammal Remains." In *The Iron Age Settlement at `Ain Dara, Syria*, edited by E.C. Stone and P.E. Zimansky, pp. 123-137. Oxford: BAR International Series 786.
- C.W. Marean and J.J. Shea. (1996) "Archaeological reconnaissance of the Mkulumuzi and Sigi River Valleys, Tanga District, Tanzania" *Nyame Akuma* 45: 72-81.
- C.W. Marean (1995). "On taphonomy and zooarchaeology." *Evolutionary Anthropology* 4: 64-72.
- C.W. Marean. (1995). "African Archaeology: Past, present and future." *Evolutionary Anthropology* 3: 155-158.
- Invited Comment** - C.W. Marean. (1995). "Comment on Tappen." *Current Anthropology* 36: 251-252.
- Abstract of article** - C.W. Marean and C.E. Ehrhardt. (1995). "Paleoanthropological and Paleoecological Implications of the Taphonomy of a Sabertooth's Lair." *Zooarchaeological Research News* 15: 10.
- Abstract of article** - C.W. Marean and Leanne Bertino. (1995). "Intrasite Spatial Analysis of Bone: Subtracting the Effect of Secondary Carnivore Consumers." *Zooarchaeological Research News* 15:10.
- Abstract of article** - C.W. Marean, Nina Mudida, and Kaye E. Reed. (1995). "Paleoenvironmental Implications of Holocene Micromammalian Remains from Enkapune Ya Muto rockshelter (Central Rift, Kenya)." *Zooarchaeological Research News* 15:5.
- Abstract of article** - C.W. Marean. (1993). "Hunter to herder: Large mammal remains from the hunter-gatherer occupation at Enkapune Ya Muto rockshelter (Central Rift, Kenya)." *Zooarchaeological Research News* 12: 11.
- Book review** - *Human Predators and Prey Mortality* edited by Mary Stiner, *Journal of Human Evolution* 22 (1993): 253-256.
- Book review** - *The Mammals of the Southern African Subregion* by J.D. Skinner and R.H.N. Smithers, *Quarterly Review of Biology* 67 (1992): 540.
- Abstract of article** - C.W. Marean, L.M. Spencer, R.J. Blumenshine, and S.D. Capaldo. (1992). "Captive hyaena bone choice and destruction, the schlepp effect and Olduvai archaeofaunas." *Zooarchaeological Research News* 11: 7-8.
- Abstract of article** - C.W. Marean and L.M. Spencer. (1992). "Impact of Carnivore Ravaging on Zooarchaeological Measures of Element Abundance." *Zooarchaeological Research News* 11: 10.
- Abstract of article** - C.W. Marean. (1992). "Measuring the post-depositional destruction of bone in Archaeological Assemblages." *Zooarchaeological Research News* 11: 9-10.

Book review - *Frozen Fauna of the Mammoth Steppe* by R. Dale Guthrie, *Journal of Vertebrate Paleontology* 10 (1990): 400-401.

Abstract - L.M. Orloff and C.W. Marean. (1990). "Taphonomic Implications of Bone Choice and Destruction by Captive Spotted Hyenas." *Journal of Vertebrate Paleontology* 9: 37A.

G. Webster; J.W. Michels; and C.W. Marean. (1987). "A Detailed Description of the Excavations." In *Studies in Nuragic Archaeology: Village Excavations at Nuraghe Urpes and Nuraghe Toscono in West-Central Sardinia*, edited by J.W. Michels and G.S. Webster, pp. 11-38. BAR International Series 373, Oxford.

Invited Comment - C.W. Marean. (1987). "Comment on Blumenschine." *Current Anthropology* 28: 397-398.

J.W. Michels; C.W. Marean; I.S.T. Tsong; and G.A. Smith.(1982). "Invisible Hydration Rims: A Test Case." *SAS Research Reports* 6: 1-4.

PROFESSIONAL PAPERS PRESENTED AND CONFERENCE PARTICIPATION

Bar-Matthews, M., Marean, C.W., Fisher, E., Goldberg, P., Herries, A., Jacobs, Z., Karkanias, P. and P. J. Nilssen (2007) Isotopic records of speleothems and Aeolian sediments in caves from Mossel Bay, South Africa: recorders of paleoclimatic and environment. AIG7 Conference, Stellenbosch, South Africa

Invited Speaker – C.W. Marean (2007) “Shellfish, Fynbos, and the Origins of Modern Humans.” Energy and Sustainability: South African National Committee of CIGRe, 31 October 2007, Diaz Beach Hotel, Mossel Bay, Western Cape, South Africa.

C. W. Marean, M. Bar-Matthews, E. Fisher, P. Goldberg, A. Herries, Z. Jacobs, P. Karkanias, P. J. Nilssen. (2007). Cave life history at Pinnacle Point (Mossel Bay, South Africa): Its implications for climate, environment, and human occupation over the last 400,000 years. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.

Herries, A.I.R., Fisher, E., Bar-Matthews, M., Goldberg, P., Jacobs, Z., Karkanias, P., Marean, C.W and Tribolo, C. (2007) Multi-dimensional modelling of magnetic mineralogy to detect anthropogenic alteration of Middle Stone Age sediments at Cave 13B, Pinnacle Point, Western Cape, South Africa. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.

Z. Jacobs and C.W. Marean (2007) A punctuated presence: the influence of palaeoenvironmental factors on human occupation at Pinnacle Point, South Africa. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.

Poster - Dave L. Roberts , Zenobia Jacobs , Panagiotis (Takis) Karkanias and Curtis W. Marean (2007) Onshore expression of multiple orbitally driven Late Quaternary marine incursions on the ultrastable southern South African coast. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.

Poster – T. Matthews, C. W. Marean and D Roberts (2007) Modern owl pellet and small carnivore scat collections as analogues for the interpretation of fossil micromammal assemblages along the southern coast of South Africa. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.

C. W. Marean , M. Bar-Matthews, P. Nilssen, E. Fisher, A. Herries, P. Karkanias (2006). “Paleoclimatic Context of the Origins of Modern Humans in South Africa: Based on Speleothem Isotopic Records” 16th Annual V.M.

Goldschmidt Conference, Melbourne Exhibition and Convention Centre, Melbourne , Australia, 27 August - 1 September.

Invited symposium participant - Erin Thompson and C.W. Marean (2006). "Paleogeography of the African Middle Stone Age (PAMSA): development of a GIS-based electronic atlas of Middle Stone Age sites in Africa". Delivered in the symposium titled Symposium titled "African Middle Stone Age", SAA 71st Annual Meeting, San Juan, Puerto Rico, April 26 – 30.

Invited symposium participant – C. W. Marean, Miryam Bar-Matthews, Erich Fisher, Paul Goldberg, Andy Herries, Zenobia Jacobs, Panagiotis Karkanas, Peter J. Nilssen. (2006). "Recent results from archaeological and geological fieldwork at Pinnacle Point (Mossel Bay, South Africa)". Delivered in the symposium titled Symposium titled "African Middle Stone Age", SAA 71st Annual Meeting, San Juan, Puerto Rico, April 26 – 30.

Jocelyn A Bernatchez, C. W. Marean, Peter J. Nilssen (2006). "Investigating Site Taphonomy using Artifact Orientation at Cave 13B, Mossel Bay, South Africa." Poster presented at SAA 71st Annual Meeting, San Juan, Puerto Rico, April 26-30.

Invited speaker – C.W. Marean and Erin Lassiter (2005). "Paleogeography of the African Middle Stone Age (PAMSA): development of a GIS-based electronic atlas of Middle Stone Age sites in Africa". Talk presented at Eco-cultural Niche Modeling: An OMLL-NSF Symposium, Les Eyzies, France, September 22-26.

Invited speaker - C.W. Marean. (2005) "Moving from the tropics to the colder climates: evolutionary context for the divergence of faunal exploitation adaptations of modern humans and Neanderthals." Talk presented at the University of Bradford, Department of Archaeological Science, 12 September.

Invited speaker - C.W. Marean. (2005) "Moving from the tropics to the colder climates: evolutionary context for the divergence of faunal exploitation adaptations of modern humans and Neanderthals." Talk presented at the Rethinking the Human Revolution conference, Cambridge University, United Kingdom, 7-11 September.

C. W. Marean, Miryam Bar-Matthews, Paul Goldberg, Andy Herries, Zenobia Jacobs, Panagiotis Karkanas, Peter J. Nilssen . (2005) "Recent results from archaeological and geological fieldwork at Pinnacle Point (Mossel Bay, South Africa)." 12th Panafrican Congress on Prehistory, Gaborone, Botswana, July 4-8.

Invited speaker - C.W. Marean. (2005) "Moving from the tropics to the colder climates: evolutionary context for the divergence of faunal exploitation adaptations of modern humans and Neanderthals." Talk presented at the University of Pennsylvania Department of Anthropology seminar series, 11 April.

Invited speaker – N. Cleghorn and C. W. Marean (2004) "The destruction of human-discarded bone by carnivores: the growth of a general model for bone survival and destruction in zooarchaeological assemblages" African Taphonomy: A Tribute to the Career of C.K. "Bob" Brain, CRAFT Research Center and University of Indiana at Bloomington, April 29-May 1.

Invited speaker – C.W. Marean (2004). "The evolution of behavioral modernity: New evidence for an African origin." African Taphonomy: A Tribute to the Career of C.K. "Bob" Brain, CRAFT Research Center and University of Indiana at Bloomington, April 29-May 1.

Invited symposium participant - C.W. Marean, M. Domínguez-Rodrigo, and T. R. Pickering (2004) "Skeletal element equifinality begins with method." Delivered in the symposium titled Symposium titled "Ungulate Body-

part Representation and Zooarchaeological Research: Addressing Issues of Equifinality, SAA 69th Annual Meeting, Montreal, Quebec: 31 March—4 April, 2004.

Invited symposium participant - N. Cleghorn and C. W. Marean (2004). “Identifying the Skeletal Elements Useful for Behavioral Analysis.” Delivered in the symposium titled Symposium titled “Ungulate Body-part Representation and Zooarchaeological Research: Addressing Issues of Equifinality, SAA 69th Annual Meeting, Montreal, Quebec: 31 March—4 April, 2004.

J.C. Thompson, J.R.F. Bower, E.C. Fisher, A.Z.P. Mabulla, C.W. Marean, K. Stewart, C.F. Vondra
“Loiyangalani: Behavioral and Taphonomic Aspects of a Middle Stone Age site in the Serengeti Plain, Tanzania.” Annual Meeting of the Paleoanthropology Society, Montreal, March 29-30.

Invited Speaker – C. W. Marean (2003) “Pinnacle Point at Mossel Bay, South Africa: Recent Field Investigations at a New Hominid and Middle Stone Age Locality.” University of Cape Town Archaeology Lecture Series, 11 November.

Invited Speaker - C. S. Henshilwood and C. W. Marean (2003) “The origin of modern human behavior: a review and critique of the models and their test implications.” *The Human Genome and Africa Conference*, Spier, South Africa, 19th - 22nd March.

Invited Speaker – C. W. Marean (2003). “Taphonomic and zooarchaeological perspectives on Middle Stone Age and Middle Palaeolithic Faunal Exploitation.” *From Tools to Symbols. From Hominids to Modern Humans*, International Round Table, Johannesburg, 16-18 March 2003.

C. S. Henshilwood and C. W. Marean (2002) “The origin of modern human behavior: a review and critique of the models and their test implications.” Cold Spring Harbor, New York 30 October – 3 November.

C. W. Marean, P. Nilssen, A. Jerardino and D. Stynder (2002). “Pinnacle Point at Mossel Bay, South Africa: Recent Field Investigations at a New Hominid and Middle Stone Age Locality.” 16th Biennial Conference of Africanist Archaeologists, University of Arizona, May 18-24, 2002.

C. W. Marean, P. Nilssen, A. Jerardino and D. Stynder (2002). “Pinnacle Point at Mossel Bay, South Africa: Recent Field Investigations at a New Hominid and Middle Stone Age Locality.” Annual Meeting of the Paleoanthropology Society, Denver, March 27-28.

Invited speaker – C.W. Marean (2001). “The evolution of behavioral modernity: New evidence for an African origins.” Council for the Advancement of Science Writing. Tempe, AZ. November 6.

Invited speaker – C.W. Marean (2001). “The zooarchaeological evidence for the origins of modern humans.” Anthropology Department Visiting Lecture Series. University of Tennessee, October 17.

Invited speaker – C.W. Marean (2001). “Neanderthals and early modern humans: Zooarchaeological perspectives on their evolutionary history.” Anthropology Department Visiting Lecture Series. University of Tennessee, October 16.

Invited speaker - C.W. Marean (2001). “Zooarchaeological perspectives on the origins of modern humans.” Quaternary Geology Lecture Series, Rutgers University, April 26.

Invited symposium participant - C.W. Marean, Y. Abe, and P. Nilssen (2001). “The Analysis of Cutmark Frequencies in Zooarchaeology: A Review and a New Image-analysis GIS Approach.”, delivered in the symposium titled “Paleolithic Zooarchaeology: Paleoenvironments, Methods, and Case Studies from Across the

Globe.” 66th Annual Meeting of the Society for American Archaeology, New Orleans.

Invited speaker - C.W. Marean (2001). “Zooarchaeological perspectives on the origins of modern humans.” South African Museum, Cape Town, March 27.

T. Minichillo and C.W. Marean (2000). "Behavioral Ecological Modeling and Faunal Resource Use in the Middle Stone Age of South Africa" Annual Meeting of the Paleoanthropology Society, Philadelphia, April 3-4.

Y. Abe, C.W. Marean, P. Nilssen, and E. Stone (2000). "Taphonomy And Zooarchaeology of The Die Kelders Cave 1 Middle Stone Age Large Mammal Remains" Annual Meeting of the Paleoanthropology Society, Philadelphia, April 3-4.

Invited speaker - C.W. Marean (2000). “Zooarchaeological perspectives on the origins of modern humans.” Department of Zoology Seminar Series, University of Cape Town, South Africa, March 30.

Invited speaker - C.W. Marean (1999). “A critical look at the zooarchaeological evidence for the origins of modern human behavior.” Department of Anthropology, University of Utah, Salt Lake City, October 28.

Invited symposium participant - C. W. Marean (1999). “Large mammal skeletal element transport: taphonomy guides the application of foraging theory”, delivered in the symposium titled “Contributions of Foraging Theory to Archaeology”, 64th Annual Meeting of the Society for American Archaeology, Chicago, 1999.

C. W. Marean, N. Cleghorn, and Y. Abe (1998). “Mousterian Hunters of the Zagros Mountains.”, 8th International Congress of the International Council for Archaeozoology, Victoria, Canada, August 23-29.

C. J. Frey and C. W. Marean. (1998). “Transcending preservational bias: Animal resource distribution at Iron Age `Ain Dara.” 8th International Congress of the International Council for Archaeozoology, Victoria, Canada, August 23-29.

C. W. Marean (1998) “A critique of the evidence for Middle Paleolithic/Middle Stone Age scavenging: new data from Kobeh Cave (Zagros Mountains) and Die Kelders Cave 1 Layer 10 (South Africa),” Annual Meeting of the Paleoanthropology Society, Seattle, March 23-24.

C. W. Marean (1998) “Middle Stone Age faunal exploitation in South Africa: new data from Die Kelders Cave I.” Symposium on “The archaeology of early modern humans in Africa,” 63rd Annual Meeting of the Society for American Archaeology, Seattle, March 25-29.

L.E. Bartram and C.W. Marean (1997) “Explaining the pattern of skeletal element abundance at Klasies River Mouth, South Africa: Kua ethnoarchaeology, the Die Kelders Middle Stone Age archaeofauna, long bone fragmentation, and carnivore ravaging.” *Economie Prehistorique: Les Comportements de Subsistance au Paleolithique*. Ville de`Antibes, France. October 23-25.

Invited speaker - C.W. Marean (1997). “Faunal exploitation strategies of Neanderthals and Early Modern Humans: Eurasia and Africa compared.” Symposium on “Neanderthals: New Perspectives”, Smithsonian Institution, Washington DC, May 29.

S. Capaldo, R. Blumenshine, C.W. Marean. (1995). "Blind tests of interanalyst correspondence and accuracy in the identification of cutmarks, percussion marks, and carnivore tooth marks on bone surfaces". Eastern States Archaeological Federation Conference, Wilmington, Delaware, October 26-29.

C.W. Marean. (1995). "Grassland Hunters of the East African Middle and Later Stone Age." 10th Congress of the

Pan African Association for Prehistory and Related Studies, Harrere, Zimbabwe, June 18-23.

Avery, G., K. Cruz-Uribe, P. Goldberg, F. Grine, R.G. Klein, M.J. Lenardi, C.W. Marean, W. J. Rink, H.P. Schwarcz, A.I. Thackeray, and M.L. Wilson. (1995). "The 1992-1995 excavations at the Die Kelders Middle and Later Stone Age cave site, South Africa." 10th Congress of the Pan African Association for Prehistory and Related Studies, Harrere, Zimbabwe, June 18-23.

C.W. Marean. (1994). "Late Quaternary Hunters of the Athi-Kapiti Plains, Kenya." 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1.

J. Bower and C.W. Marean. (1994). "The Loiyangalani Site (HcJd1): New observations on an MSA occurrence in the Serengeti National Park, Tanzania." 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1.

Invited session chair - Conference session on 'Later Adaptations: Hunters, Gatherers, and Stone Tool Makers.' 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1, 1994.

Invited discussant - Conference session on 'Zooarchaeological Approaches to Problems of Prehistory.' 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1, 1994.

Invited discussant - Conference session on 'Models and Tests of Early Hominid Behavior.' 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1, 1994.

C.W. Marean. (1994). "Late Quaternary Faunal Exploitation at Lukenya Hill, Kenya." Annual Meeting of the Paleoanthropology Society, Anaheim, California, April 20.

C. W. Marean. (1993). "Middle Stone Age Faunal Exploitation Strategies at Lukenya Hill, Kenya." International Congress in Honour of Dr. Mary D. Leakey's Outstanding Contribution in Paleoanthropology, Arusha, Tanzania, August 8-15.

Invited speaker - C. W. Marean. (1992). "Linking Experimental Taphonomy to Zooarchaeological Problems at Die Kelders Cave." Institute of Human Origins Paleoanthropology Series, Berkeley, California, December 28.

Invited speaker - C.W. Marean. (1992). "Experimental Taphonomy and Early Hominid Behavior." Symposium on Recent Advances in Human Evolution, held in conjunction with the annual meeting of the L.S.B. Leakey Foundation, SUNY at Stony Brook, October 19.

Invited speaker - R.J. Blumenschine and C. W. Marean. (1991). "A Carnivore's View of Archaeological Bone Assemblages." The Visiting Scholar conference, *From Bones to Behavior*, Southern Illinois University at Carbondale, April 12-13.

L.M. Orloff and C.W. Marean. (1990). "Taphonomic Implications of Bone Choice and Destruction by Captive Spotted Hyenas." Annual Meeting of the Society for Vertebrate Paleontology, Kansas City, Kansas.

C.W. Marean; C.L. Ehrhardt, and N. Mudida. (1990). "Late Quaternary Mammalian Fauna in Eastern Africa: Its Relevance for Environmental Change and Faunal Extinctions" Sixth International Conference, International Council for Archaeozoology, Washington D.C.

C.W. Marean, R.J. Blumenschine, and S. Capaldo. (1990). "Bone Choice, Modification, and Destruction by Captive Spotted Hyenas." Sixth International Conference, International Council for Archaeozoology, Washington

D.C.

C.W. Marean and C.L. Ehrhardt. (1990). "Paleoecology of Extinct Carnivores and Implications for Actualistic Models." 10th Biennial Meeting of the Society of Africanist Archaeologists, Gainesville, Florida, 1990.

C.W. Marean. (1989). "Sabertooth Cats and Their Relevance for Early Hominid Diet and Evolution." 54th Annual Meeting of the Society of American Archaeology, Atlanta, Georgia.

GRANTS FOR RESEARCH

PI – Hyde Family Foundation - The Mossel Bay Archaeology Project (MAP): A Long-Term Plan for Research into the Origins of Modern Human Behavior, 2007 - \$50,000.

PI – Hyde Family Foundation - The Mossel Bay Archaeology Project (MAP): A Long-Term Plan for Research into the Origins of Modern Human Behavior, 2006 - \$50,000.

PI – National Science Foundation Hominid Program - Paleoclimatic and paleoenvironmental context of the origins of modern humans in South Africa: Constructing a detailed record from 400,000 to 30,000 years ago, 2005 - \$2,500,000.

PI – ASU Multi-investigator Proposal Development Grant - Paleoclimatic and paleoenvironmental context for the origins of modern humans, 2004 - \$19,942.

PI – Hyde Family Foundation - The Mossel Bay Archaeology Project (MAP): A Long-Term Plan for Research into the Origins of Modern Human Behavior, 2002 - \$50,000.

PI – National Science Foundation – Excavations at Cave 13B, Pinnacle Point, Mossel Bay, South Africa: Faunal exploitation, raw material procurement, and organization of domestic space during the Middle Stone Age, 2002-2005 - \$240,000.

PI - National Science Foundation - Test excavations at Four Middle Stone Age sites near Mossel Bay, Western Cape Province, South Africa, 1999-2001 - \$20,000.

PI - National Science Foundation Grant - Zooarchaeological and taphonomic analysis of the Die Kelders Cave 1 (South Africa) Middle Stone Age Fauna, 1998-2001 - \$83,804.

PI - Wenner-Gren Foundation Grant - Zooarchaeological and taphonomic analysis of the lower Middle Stone Age Layers at Die Kelders Cave 1 (South Africa), 1998-99 - \$13,000

PI - National Science Foundation Grant - Paleolithic faunas of the Zagros Mountains: Zooarchaeological and Taphonomic Analysis, 1998-2001 - \$128,088

PI - Rockefeller Foundation Travel Grant to Ethiopia, 1997 - \$5500.

PI - L.S.B. Leakey Foundation Grant for archaeological reconnaissance of the Mkulumuzi River Valley, Tanga District, Tanzania, 1995 - \$2500.

PI - National Science Foundation Grant for archaeological reconnaissance of the Mkulumuzi River Valley, Tanga District, Tanzania, 1995 - \$4800.

Co-PI (Fred Grine, Richard G. Klein, and Curtis W. Marean) - National Science Foundation Grant for

archaeological excavations and zooarchaeological analysis at Die Kelders Cave, South Africa, 1991-1994 - \$330,000.

PI - L.S.B. Leakey Foundation Grant for analysis of fossil carnivores, 1992 - \$1000.

Co-PI (J. Desmond Clark and Curtis W. Marean) - National Science Foundation Doctoral Dissertation Improvement Grant for archaeological and zooarchaeological research in Kenya and Tanzania, 1988-89 - \$9000 re-budgeted by Marean to \$2300.

PI - Boise Fund Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1988 - \$1600.

PI - L.S.B. Leakey Foundation Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1988 - \$2000.

PI - Lowie Fund Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1986 & 1988 - \$1000.

PI - L.S.B. Leakey Foundation Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1986 - \$3000.

PI - Sigma Xi Society Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1986 - \$500.

PI ON GRANTS FOR GRADUATE STUDENT RESEARCH

National Science Foundation Doctoral Dissertation Improvement Grant for Jessica Thompson, 2005 - \$12,000.00

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Yoshiko Abe, 2002 - \$20,000.00

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Naomi Cleghorn, 2001 - \$8750.00

National Science Foundation Doctoral Dissertation Improvement Grant for Denne Reed, 1998 - \$12,000.00

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Denne Reed, 1998 - \$15,000.00

National Science Foundation Doctoral Dissertation Improvement Grant for Zelalem Assefa, 1997 - \$15,000.00

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Zelalem Assefa, 1997 - \$13,000.00

Doctoral Dissertation Grant from the L. S. B. Leakey Foundation for Zelalem Assefa, 1997 - \$4500.00

Doctoral Dissertation Grant from the Rockefeller Foundation for Zelalem Assefa, 1997, - \$17,063.00.

Doctoral Dissertation Grant from the L. S. B. Leakey Foundation for Yin Man Lam, 1997 - \$2500.00

National Science Foundation Doctoral Dissertation Improvement Grant for Yin Man Lam, 1997 - \$15,000.00

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Yin Man Lam, 1997 - \$13,000.00

National Science Foundation Doctoral Dissertation Improvement Grant for Lillian Spencer, 1992 - \$10,500.

National Science Foundation Doctoral Dissertation Improvement Grant for Margaret Lewis, 1992 - \$10,500.

AWARDS, FELLOWSHIPS, AND SCHOLARSHIPS

Barret Honors College Faculty, 2006, 2007.

Nominee for Undergraduate Teaching Award, Division of Social and Behavioral Sciences, SUNY at Stony Brook - 1993.

Stony Brook Nominee for the NSF Presidential Faculty Fellow, 2 nominees per University - 1991.

Andrew and Mary Thompson Rocca Scholar in African Studies, University of California at Berkeley - 1988/1989.

Andrew and Mary Thompson Rocca Scholar in African Studies, University of California at Berkeley - 1986/1987.

Regents Traveling Fellowship, University of California at Berkeley - 1986/1987.

Outstanding Teaching Assistant Award, Department of Educational Development, University of California at Berkeley - 1986.

Outstanding Teaching Assistant Award, Department of Educational Development, University of California at Berkeley - 1985.

Charles Fish Fellowship, University of California at Berkeley - 1984/1985.

Clements Fellowship, Southern Methodist University - 1981.

ARCHAEOLOGICAL FIELDWORK

Mossel Bay archaeological excavations, South Africa, (Middle Stone Age), every year 2000-2004.

Mossel Bay Archaeological Reconnaissance, South Africa, March 1999 and April 2000.

Mkulumuzi River Valley Archaeological Reconnaissance, Tanzania, July to August 1995.

Die Kelders Cave archaeological excavations, South Africa (Middle Stone Age to Later Stone Age), February to April of 1992, January to March of 1993, January to March of 1995.

Olduvai Gorge Archaeological Survey, Tanzania (Early Stone Age), July and August of 1988.

Jubba River Survey, Somalia (Middle Stone Age to Later Stone Age), September to November of 1987.

Enkapune Ya Muto, Kenya (Middle Stone Age to Later Stone Age), July to August of 1987, excavator and faunal analyst.

Ain Ghazal, Jordan (Pre-pottery Neolithic B), July to September of 1983, plot supervisor.

Pella of the Decapolis, Jordan (Neolithic to Ommayad), May to July of 1983, surveyor and draftsman.

Nuraghe Toscono Site, Sardinia (Nuragic to Roman), July and August of 1982, teaching assistant for field school, surveyor, and draftsman.

Nuraghe Urpes Site, Sardinia (Nuragic to Roman), June of 1982, teaching assistant for field school, surveyor, draftsman.

Cerrita Site, New Mexico (Basketmaker), summer of 1981, excavator.

Pot Creek Pueblo Site, New Mexico (Anasazi), summer of 1981, excavator.

Bedford Village Site, PA (Late Woodland), summer of 1980, student at field school.

CURRENT RESEARCH PROJECTS

Paleoclimatic and paleoenvironmental context of the origins of modern humans in South Africa: Constructing a detailed record from 400,000 to 30,000 years ago

PAMSA – Paleogeography of the African Middle Stone Age – construction of a GIS-based electronic atlas
Survey and excavations at Mossel Bay, South Africa.

Analysis of the fossil fauna from the Paleolithic of the Zagros Mountains.

Analysis of fossil fauna from Die Kelders Cave, southern Cape of South Africa.

SOCIETY AND ASSOCIATION MEMBERSHIP

Palaeoanthropology Society

Society of Africanist Archaeologists

Society for American Archaeology

Society for Archaeological Science

South African Archaeological Society

GRANT AND JOURNAL REFEREE/EDITOR

Editorial Board

Journal of PaleoAnthropology 2001 – present

International Journal of Geoarchaeology 1999 – present

Evolutionary Anthropology – 2001 – present

Journal of Taphonomy – 2002 – present

Associate Editor

Quaternary Research - present

Journal of Human Evolution 2000 - 2003

Journal of Human Evolution 1995 - 1997

Regular Referee - *Evolutionary Anthropology*, *Journal of Archaeological Science*, *American Antiquity*, *Journal of Human Evolution*, *International Journal of Osteoarchaeology*, *Quaternary Research*, *Quaternary Science Reviews*, L.S.B. Leakey Foundation, National Science Foundation, and National Geographic Society.

SIGNIFICANT NATIONAL SERVICE

National Science Foundation Committee of Visitors for External Review of the Behavioral and Cognitive Sciences programs, 2006.

National Science Foundation Archaeology Panel, 1996-1999.

SIGNIFICANT UNIVERSITY ADMINISTRATIVE SERVICE

Sub-discipline Head for Archaeology, ASU, 8/2004-8/2005.

Member of the Stony Brook 5-year Plan Task Force on Academic Excellence 2000.

Director of the Interdepartmental Doctoral Program in Anthropological Sciences, SUNY at Stony Brook, 1998-2000.

Member of the University committee for Undergraduate Research and Creative Activities (URECA), 1998-present.

Member of the University committee for Simons Fellowships (for talented high school students to conduct research), 1998-present.

Director of Undergraduate Studies, Department of Anthropology, SUNY at Stony Brook, 1996-1998.

GRADUATE INSTRUCTION

Major Advisor: Lillian Spencer (Ph.D. received 1996), Margaret Lewis (Ph.D. received 1996), Yin Lam (Ph.D. received 2002), Zelalem Assefa (Ph.D. received 2002), Denne Reed (Ph.D. received 2003), Naomi Cleghorn (Ph.D. received 2005), Yoshiko Abe (Ph.D. received 2004), Jessica Thompson (ABD), Erin Lassiter (masters candidate), Jocelyn Bernatchez (MA received 2005), Sarah Lansing (MA student), and Hope Williams (Ph.D. student).

Member of Advisory Committee: Linda Barber (Ph.D. received 1991), Kaye Reed (Ph.D. received 1995), Elizabeth McGee (Ph.D. received 1997), Frank Turano (Ph.D. received 1995), Salvatore Capaldo (Ph.D. received from Rutgers 1995, I was the outside member), Michael Bonasera (M.A. received 1992), Michael Lenardi (M.A. received 1998), Phillip Rassmann (M.A. received 1996), Jennifer Cole (Ph.D. received 2003), Laura Bidner (ABD), Amy Rector (masters candidate).

Courses: Stone Age of Africa, Prehistoric and Historic Hunter-gatherers, Zooarchaeology, Paleoecology

UNDERGRADUATE INSTRUCTION

Courses: Introduction to Archaeology, Stone Age of Africa, Prehistoric and Historic Hunter-gatherers, Zooarchaeology

Research: I have been very active in promoting undergraduate and high school student research. Students of mine have won 6 awards for undergraduate research, and one was awarded the first Stony Brook Excellence in Research Award at the 1996 graduation. I have also supervised one Westinghouse (now Intel) finalist.