

J. Stephen Athens

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A. Address & Contact Information:

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B. Academic Preparation:

Diploma, 1964, Notre Dame International, Rome, Italy
The Colorado College, Economics, B.A., 1968
Univ. of New Mexico, Anthropology, M.A., 1973
Univ. of New Mexico, Anthropology, Ph.D., 1978

C. Appointments:

General Manager and Senior Archaeologist, International Archaeological Research Institute, Inc.,
Honolulu (1986 to present)
Affiliate Faculty, Anthropology, University of Hawaii (1987-2000; 2002-present).
Contract Archaeology Manager, B. P. Bishop Museum, Honolulu (1980-1982)
Staff Archaeologist (based on Pohnpei), Pacific Studies Institute, Guam (1979-1980).

D. Awards & Grants:

1974: grant, Sigma Xi.
1974: fellowship, Organization for American States
1976, 1994, 2000: grants, Wenner-Gren Foundation.
1984, 1997: grants, National Geographic Society.
1989, 1994: Fulbright research fellowships, Ecuador.
2000: fellowship, Australian Museum
2000: grant, H. J. Heinz III Fund of the Heinz Family Foundation
1995: 2002, grants, National Science Foundation (1995 co-PI with P. Stahl)

E. Non-English Language Skills: fluent conversational Spanish; some conversational French.

F. Topical and Geographical Specializations:

Paleoenvironmental Studies for Archaeology: tropical Pacific (Hawai'i and most high islands of Micronesia), French Polynesia, Amazon, northern Andes, New Guinea, Washington state.
Archaeological Chronologies: Hawai'i, Micronesian high islands (Pohnpei, Kosrae, Guam, Tinian, Saipan, Pagan, Sarigan, Palau), northern highland Ecuador.
Development of Social Complexity: tropical Pacific and northern Andes.
Prehistoric Maize Agriculture: origin, development, and significance of maize in northern highland Ecuador.

G. Synergistic Activities:

Development of the use of paleoenvironmental coring techniques as a research tool in archaeology. The methodology is specifically directed by the research archaeologist to answer a range of archaeological research questions. Paleoenvironmental coring studies are now recognized as an important *archaeological* research tool throughout the Pacific, and they are routinely required by major archaeological/environmental compliance agencies in the Pacific (e.g., Dept. of Navy, Corps of Engineers, Hawai'i State Historic Preservation Division).

The ongoing demonstration in Hawai'i and the Western Pacific that archaeological compliance investigations (i.e., CRM studies) can only fulfill their statutory intent and serve the public interest if they are basically research driven with all the methodological and qualification requirements thus implied. This was the underlying premise in the founding of International Archaeological Research Institute, Inc. (IARII) in 1986 by JSA. IARII pioneered the use of CD's and electronic pdf files as an inexpensive means for public dissemination of CRM studies (in paper form, such studies often are inaccessible to the public and most researchers due to cost, difficulty of access, and the difficulty of copying often very lengthy reports).

Lecture tour of Australia and New Zealand in 2000 with lectures given on various topics concerning archaeological paleoenvironmental research at the Australian Museum (Sydney), Australian National University (Canberra), Southern Cross University (Lismore), University of Auckland (Auckland), Massey University (Palmerston North), and Landcare (Christchurch).

Proposal and manuscript reviews for major grant institutions and academic journals; about 6 to 8 per year. Member of Editorial Board, *Journal of Pacific Archaeology*.

Invited participant to international conference in March 2007 at University of Hawai'i, "Rats, Humans, and their Impact on Islands." Gave a paper and led a field tour.

H. Academic Publications

Paleoenvironmental Studies

Athens, J. Stephen

- 1997 Hawaiian native lowland vegetation in prehistory. In *Historical Ecology in the Pacific Islands*, ed. by Patrick V. Kirch and Terry L. Hunt, pp. 248-270. Yale University Press, Connecticut.
- 2009 *Rattus exulans* and the catastrophic disappearance of Hawai'i's native lowland forest. *Biological Invasions* 11(7):1489-1501.

Athens, J. Stephen and Jerome V. Ward

- 1993 Environmental change and prehistoric Polynesian settlement in Hawai'i. *Asian Perspectives* 32(2):205-223.
- 1995 Paleoenvironment of the Orote Peninsula, Guam. *Micronesica* 28(1):51-76.
- 1997 The Maunawili core: prehistoric inland expansion of settlement and agriculture, O'ahu, Hawai'i. *Hawaiian Archaeology* 6:37-51.
- 1999 The Late Quaternary of the western Amazon: climate, vegetation, and humans. *Antiquity* 73:287-302.
- 2002 Paleoenvironmental evidence for early human settlement in Palau: the Ngerchau core. *Pacific 2000: Proceedings of the Fifth International Congress on Easter Island and the Pacific*, eds. C. M. Stevenson, G. Lee, & F. J. Morin, pp. 164-177. Los Osos, California: Easter Island Foundation.
- 2004 Holocene vegetation, savanna origins, and human settlement of Guam. In *A Pacific Odyssey: Archaeology and Anthropology in the Western Pacific. Papers in Honour of Jim Specht*, ed. Val Attenbrow and Richard Fullagar. *Records of the Australian Museum*, Supplement 29:15-30.
- 2006 *Holocene paleoenvironment of Saipan: analysis of a core from Lake Susupe*. Micronesian Archaeological Survey, Report No. 35. Division of Historic Preservation, Dept. of Community and Cultural Affairs, CNMI, Saipan.

Athens, J. Stephen, Michael F. Dega, and Jerome V. Ward

- 2004 Austronesian colonisation of the Mariana Islands: the palaeoenvironmental evidence. *Bulletin of the Indo-Pacific Prehistory Association* 24:21-30.

- Athens, J. Stephen, Jerome V. Ward, and Dean W. Blinn
2007 Laysan Island vegetation history, Northwestern Hawaiian Islands. *Pacific Science* 61(1):17-37.
- Athens, J. Stephen, Jerome V. Ward, and Gail M. Murakami
1996 Development of an agroforest on a Micronesian high island: prehistoric Kosraean agriculture. *Antiquity* 70:834-846.
- Athens, J. Stephen, H. David Tuggle, Jerome V. Ward, and David Welch
2002 Vegetation change, avifaunal extinctions, and Polynesian impacts in prehistoric Hawai'i. *Archaeology in Oceania* 37:57-78.
- Athens, J. Stephen, Jerome V. Ward, and Stephen Wickler
1992 Late Holocene lowland vegetation, O'ahu, Hawai'i. *New Zealand Journal of Archaeology* 14:9-34.
- Dickinson, William R. and J. Stephen Athens
2007 Holocene paleoshoreline and paleoenvironmental history of Palau: implications for human settlement. *Journal of Island and Coastal Archaeology* 2:175-196.
- Weng, Chengyu, Mark B. Bush, and J. Stephen Athens
2002 Holocene climate change and hydrarch succession in Amazonian Ecuador. *Review of Palaeobotany and Palynology* 120:73-90.

Archaeological Studies

Athens, J. Stephen

- 1977 Theory building and the study of evolutionary process in complex societies. In *For theory building in archaeology: essays on faunal remains, aquatic resources, spatial analysis, and systemic modeling*, ed. by Lewis R. Binford, pp. 353-384. New York: Academic Press.
- 1978 Formative period occupations in the highlands of northern Ecuador: a comment on Myers. *American Antiquity* 43:493-496.
- 1980 Pottery from Nan Madol, Ponape, Eastern Caroline Islands. *Journal of the Polynesian Society* 89:95-99
- 1981 A stone adze from Ponape, Eastern Caroline Islands. *Asian Perspectives* 24(1):43-46.
- 1984 Surface artefact distributions at the Nan Madol site: a preliminary assessment of spatial patterning. *New Zealand Journal of Archaeology* 6:129-154.
- 1986 The site of Pumpuenta and the Pastaza Phase in southeastern lowland Ecuador. *Nawpa Pacha* 24:111-124.
- 1990 Nan Madol pottery, Pohnpei. *Micronesica*, Supplement 2:17-32.
- 1990 Kosrae pottery, clay, and early settlement. *Micronesica*, Supplement 2:171-186.
- 1992 Ethnicity and adaptation: the Late Period-Cara occupation in northern highland Ecuador. In *Resources, Power, and Interregional Interaction*, ed. by Edward M. Schortman and Patricia A. Urban, pp. 193-219. Plenum Press, New York.
- 1993 Cultural resource management and academic responsibility in archaeology: a further comment. *SAA Bulletin* 11(2):6-7 (March-April).
- 1994 Archaeological Monitoring and Historic Preservation. *Hawaiian Archaeology* 3:4-13.
- 1995 Relaciones interregionales prehistoricas en el norte de los Andes: evidencia del sitio La chimba, en el Ecuador septentrional. In *Perspectivas Regionales en la Arqueologia del Suroccidente de Colombia y Norte del Ecuador*, ed. by Cristóbal Gnecco, pp. 3-29. Editorial Universidad del Cauca, Popayán, Colombia.
- 1999 Volcanism and archaeology in the Northern Highlands of Ecuador. In *Actividad Volcanica y Pueblos Precolombinos en el Ecuador*, ed. by Patricia A. Mothes, pp.157-189. Abya-Yala Press, Quito.
- 2007 Prehistoric Population Growth on Kosrae, Eastern Caroline Islands. In *The Growth and Collapse of Pacific Island Societies: Archaeological and Demographic Perspectives*, ed. by Patrick V. Kirch and Jean-Louis Rallu, pp. 257-277. University of Hawaii Press, Honolulu.

- 2007 The Rise of the Saudeleur: Dating the Nan Madol Chiefdom, Pohnpei. In *Vastly Ingenious: The Archaeology of Pacific Material Culture*, ed. by Atholl Anderson, Kaye Green, and Foss Leach, pp. 191-208. Otago University Press, Dunedin, New Zealand.
- 2011 Latte Period Occupation on Pagan and Sarigan, Northern Mariana Islands. *Journal of Island and Coastal Archaeology* 6:314-330.
- Athens, J. Stephen, Michael W. Kaschko and Helen James
- 1991 Prehistoric bird hunters: high altitude resource exploitation on Hawai'i Island. *Bishop Museum Occasional Papers* 31:63-84.
- Carson, Mike and J. Stephen Athens
- 2007 Integration of Coastal Geomorphology, Mythology, and Archaeological Evidence at Kualoa Beach, Windward O'ahu, Hawaiian Islands. *Journal of Island and Coastal Archaeology* 2:24-43.
- Joyce E. Bath and J. Stephen Athens
- 1990 Prehistoric social complexity on Pohnpei, the Saudeleur to Nahnmwarki transformation. *Micronesica*, Supplement 2:275-290.
- Leach, Foss, Janet Davidson, and J. Stephen Athens
- 1996 Mass harvesting of fish in the waterways of Nan Madol, Pohnpei, Micronesia. In *Oceanic Culture History: Essays in Honour of Roger Green*, ed. by Janet Davidson, Geoffrey Irwin, Foss Leach, Andrew Pawley, and Dorothy Brown, pp. 319-341. New Zealand Journal of Archaeology Special Publication. Wellington, New Zealand.
- Masse, Bruce, Jolie Liston, James Carucci, and J. Stephen Athens
- 2006 Evaluating the Effects of Climate Change on Environment, Resource Depletion, and Culture in the Palau Islands Between AD 1200 and 1600. *Quaternary International* 151:106-132.
- Shun, Kanalei and J. Stephen Athens
- 1990 Archaeological investigations on Kwajalein Atoll, Marshall Islands, Micronesia. *Micronesica*, Supplement 2:231-240.
- Stahl, Peter W. and J. Stephen Athens
- 2001 A high elevation zooarchaeological assemblage from the northern Andes of Ecuador. *Journal of Field Archaeology* 28(1&2):161-176.
- 2006 Aprovechamiento Prehistórico de Animales y Manufactura de Utensilios de Hueso en la Parte Alta de los Andes, al Norte del Ecuador. *Cuadernos de Historia y Arqueología*, pp. 115-165. Publication of the Casa de la Cultura Ecuatoriana Benjamín Carrión, Núcleo del Guayas, Guayaquil, Ecuador.
- Storey, Alice A., José Miguel Ramírez, Daniel Quiroz, David V. Burley, David J. Addison, Richard Walter, Atholl J. Anderson, Terry L. Hunt, J. Stephen Athens, Leon Huynen, and Elizabeth A. Matisoo-Smith.
- 2007 Radiocarbon and DNA Evidence for a Pre-Columbian Introduction of Polynesian Chickens to Chile. *Proceedings of the National Academy of Sciences (PNAS)* 104(25):10335-10339.

Popular Articles and Interpretive Brochures

Athens, J. Stephen

- 1980 Nan Madol: Ponape's spectacular ruins. *Glimpses* 20(3):58-61 (popular magazine devoted to culture and islands of the western Pacific).
- 1983 The megalithic ruins of Nan Madol. *Natural History* 92(12):50-61.
- 2006 *The Mounds of Zuleta* (16 pp.; brochure about the earthen mounds of northern highland Ecuador). Prepared for the Hacienda Zuleta, Ecuador.

Comments and Book Reviews

Athens, J. Stephen

- 1993 Review of: Anahulu: The Anthropology of History in the Kingdom of Hawaii; Vol. 1: Historical Ethnography, by Marshall Sahlins with the assistance of Dorothy B. Barrère; Vol. 2: The Archaeology of History, by Patrick V. Kirch with the assistance of Marshall Sahlins,

- Marshall Weisler, and Matthew Spriggs. The University of Chicago Press, Chicago and London, 1992. *Archaeology in Oceania* 28(3):151-152.
- 1996 Review of: The Lelu Stone Ruins (Kosrae, Micronesia): 1978-81 Historical and Archaeological Research, by Ross Cordy. Asian and Pacific Archaeology Series No. 10, Social Science Research Institute, University of Hawaii at Manoa, Honolulu, 1993. *Asian Perspectives* 35(1):101-103.
- 1999 Comment on, "Intensification in the Pacific: A Critique of the Archaeological Criteria and Their Application," by Helen M. Leach. *Current Anthropology* 40(3):321-322.
- 2002 Review of: *Tiempon I Manmofo 'na: Ancient Chamorro Culture and History of the Northern Mariana Islands*, by Scott Russell, 1998. Micronesian Archaeological Survey Report No. 32. Division of Historic Preservation, Saipan, Commonwealth of the Northern Mariana Islands. *Asian Perspectives* 40(2):313-315.
- 2003 Review of: *Australian Archaeologist: Collected Papers in Honour of Jim Allen*, ed. by Atholl Anderson and Tim Murray. Centre for Archaeological Research and Department of Archaeology and Natural History, The Australian National University, with the Department of Archaeology, La Trobe University. Coombs Academic Publishing, The Australian National University, 2000. *Asian Perspectives* 42(1):181-183.
- 2003 Comment on "The Geographical Patterning of Rainfall Variability and Subsistence Systems in Southeast Asia and the Western Pacific," by Robert E. Dewar. *Current Anthropology* 44(3):377-378.
- 2004 "Setting the record straight" for Cachola-Abad and Ayau. *Hawaiian Archaeology* 9:119-122.
- Storey, Alice A., Daniel Quiroz, José Miguel Ramírez, Nancy Beavan-Athfield, David J. Addison, Richard Walter, Terry L. Hunt, J. Stephen Athens, Leon Huynen, and Elizabeth A. Matisoo-Smith.
- 2008 Pre-Columbian chickens, dates, isotopes, and mtDNA. Letter in *Proceedings of the National Academy of Sciences* (PNAS) 105(48).

I. Technical Reports (selected examples):

Athens, J. Stephen

- 1980 *Archaeological investigations at Nan Madol: islet maps and surface artifacts*. Monograph Series No. 2. Pacific Studies Institute, Guam (194 pp.).

Athens, J. Stephen and Michael W. Kaschko

- 1989 *Prehistoric upland bird hunters: archaeological inventory survey and testing for the MPRC project area and the Bobcat Trail Road, Pohakuloa Training Area, Island of Hawaii*. Report prepared for the Corps of Engineers, Pacific Ocean Division, Honolulu. International Archaeological Research Institute, Inc., Honolulu (co-authored; 295 pp.).
- 1990 *Prehistoric agricultural expansion and population growth in northern highland Ecuador: interim report for 1989 fieldwork*. Report prepared Instituto Nacional de Patrimonio Cultural, Quito, Ecuador. International Archaeological Research Institute, Inc., Honolulu (96 pp.).
- 1995 *Landscape archaeology: prehistoric settlement, subsistence, and environment of Kosrae, Eastern Caroline Islands, Micronesia*. International Archaeological Research Institute, Inc., Honolulu (474 pp.).
- 2002 *An upland Heiau site, Ukumehame Ahupua'a, Maui*. Report prepared for GE Wind Energy, LLC, Tehachapi, CA. International Archaeological Research Institute, Inc., Honolulu (34 pp.).
- 2003 *Inventory of earthen mound sites, northern highland Ecuador*. Final project report for H. John Heinz III Fund Grant Program for Latin American Archaeology, Pittsburgh, Pennsylvania, and the Instituto Nacional de Patrimonio Cultural del Ecuador, Quito, Ecuador.
- 2009 *Archaeological Surveys and Cultural Resources Studies on Guam and the Commonwealth of the Northern Mariana Islands in Support of the Joint Guam Build-Up Environmental Impact Statement, Volume II-1: Saipan, Sarigan, and Pagan Narrative Report*. Prepared by International Archaeological Research Institute, Inc., Honolulu, with TEC Inc. Joint Venture (co-authored with Rlene Steffy and Wakako Higuchi) (311 pp.; CD available).

- 2009 *Archaeological Surveys and Cultural Resources Studies on Guam and the Commonwealth of the Northern Mariana Islands in Support of the Joint Guam Build-Up Environmental Impact Statement: Vol. II-2: Pagan Site Descriptions*. Prepared for Dept. of the Navy, Naval Facilities Engineering Command, Pacific, Pearl Harbor, Hawai'i. Prepared by International Archaeological Research Institute, Inc., Honolulu, with TEC Inc. Joint Venture (569 pp.; CD available).
- 2009 *Archaeological Surveys and Cultural Resources Studies on Guam and the Commonwealth of the Northern Mariana Islands in Support of the Joint Guam Build-Up Environmental Impact Statement: Vol. II-3: Sarigan Site Descriptions*. Prepared for Dept. of the Navy, Naval Facilities Engineering Command, Pacific, Pearl Harbor, Hawai'i. Prepared by International Archaeological Research Institute, Inc., Honolulu, with TEC Inc. Joint Venture (81 pp.; CD available).
- 2010 *El Sitio Tola de la Hacienda Zuleta: Investigaciones Geofísicas 2005 y 2009*. Reporte preparado para el Instituto Nacional de Patrimonio Cultural, Quito, Ecuador (107 pp; CD available).
- Athens, J. Stephen, Jerome V. Ward, H. David Tuggle, and David J. Welch
- 1999 *Environment, vegetation change, and early human settlement on the 'Ewa Plain: a cultural resource inventory of Naval Air Station, Barbers Point, O'ahu, Hawai'i: Part III: paleoenvironmental investigations*. Task 2c: archaeological research services for the proposed cleanup, disposal, and reuse of Naval Air Station, Barbers Point, O'ahu, Hawai'i. Report prepared for Dept. of the Navy, Pacific Division, Naval Facilities Engineering Command, Pearl Harbor, Hawai'i, under contract to Belt Collins Hawaii, Honolulu. International Archaeological Research Institute, Inc., Honolulu (300 pp.).
- Tomonari-Tuggle, M. J., H. David Tuggle, and J. Stephen Athens
- 2000 *Archaeology on a south coast landscape, Hulopo'e, Lana'i, Hawai'i*. Vol. I: Background, Summary, and Synthesis (274 pp.); Vol. II and Vol. III: Site and Feature Descriptions; by J. Stephen Athens, M. J. Tomonari-Tuggle, David J. Welch, Stephen Wickler, and Judith McNeill. Report prepared for Lanai Company, Inc., Honolulu, Hawaii. International Archaeological Research Institute, Inc. (900 pp.).
- Athens, J. Stephen and Jerome V. Ward
- 2004 *Holocene paleoenvironment and landscape change*. Vol. IV, Phase I, Intensive Archaeological Survey, Palau Compact Road Archaeological Investigations, Babeldaob Island, Republic of Palau. Final report prepared for the U.S. Army Corps of Engineers, Pacific Ocean Division, Ft. Shafter, Hawai'i. International Archaeological Research Institute, Inc., Honolulu (159 pp.).