# **Curriculum Vitae**

## Dr. Willis E. Hames

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#### **Professional Preparation**

1982 B.S. Geology, University of Georgia.

- 1988 M.S. Geology, University of Georgia, Dr. R.D. Dallmeyer, advisor. Thesis title: *Timing* and extent of Caledonian Orogeny in a Portion of the Western Gneiss Terrane, Senja, Northern Norway.
- 1990 Ph.D. Geology, Virginia Polytechnic Institute and State University, Dr. R.J. Tracy, advisor. Thesis title: *Multidisciplinary Analysis of a Polymetamorphic Terrain, Western New England.*
- 1990-1994 Postdoctoral Research Scientist, Cambridge Laboratory for Argon Isotopic Research, Massachusetts Inst. of Technology, Dr. K.V. Hodges, supervisor.

## **Appointments**

2006-Present	Professor, Department of Geology and Geography, Auburn University
2005-Present	Research Coordinator for the College of Science and Mathematics, Auburn
	University
2003	Associate Editor, American Geophysical Union, for Geophysical Monograph 136
	'The Central Atlantic Magmatic Province'
2000	National Science Foundation, EAR Tectonics Division Panel Member
1999	Associate Professor, Department of Geology and Geography, Auburn University,
	Auburn, Alabama, 36849
1996-1997	Assistant Editor, Geochimicia et Cosmochimica Acta, Special Series Papers on
	$^{40}$ Ar/ $^{39}$ Ar microanalytical techniques.
1994-1999	Assistant Professor, Department of Geology, Auburn University, Auburn,
	Alabama, 36849

## **Article-Length Publications**

- Kamenov, G.D., Saunders, J.A., and Hames W.E., Unger, D., Mantle-Plume magmas as sources for gold in hydrothermal deposits: Economic Geology, in press.
- Hames, W.E., Cheney, J.T., and Tracy, R.J., in press, <sup>40</sup>Ar/<sup>39</sup>Ar Age Variation in muscovite of the Gassetts schist and associated gneiss, Vermont Appalachians: Accepted 8/15/07 for publication in the Guidotti Memorial Volume of American Mineralogist.
- Rızaoğlu, Tamer, Parlak, Osman, Höck, Volker, Koller, Friedrich, and Hames, Willis E., *in press*, Andean-type active margin formation in the eastern Taurides: geochemical and geochronogical evidence from the Baskil granitoid (Elazığ, SE Turkey). Tectonophysics, Special Volume on the Accretion of the Arabian Craton.

- Hames, W.E., Tull, J.F., and McDonald, W.M., 2007, Laser 40Ar/39Ar ages of Muscovite from the frontal zone of the Western Blue Ridge and Talladega Belt, in Tull, J.F., editor, Tectonics of the Georgia Blue Ridge: Bsement/Cover Rift Architecture, Important Aspects of Overlying Drift and Clastic Wedge Facies, and the Westernmost Accretionary Terrane: 42<sup>nd</sup> Annual Field Trip of the Georgia Geological Society.
- Schultz, Peter H; Zarate, Marcelo; Hames, Willis E; Harris, R Scott; Bunch, T E; Koeberl, Christian; Renne, Paul; Wittke, James, 2006, The record of Miocene impacts in the Argentine Pampas: Meteoritics & Planetary Science, vol. 41, no.5, pp.749-771.
- Kramer, Andrew, Djubiantono, T., Aziz, F., Bogard, J.S., Weeks, R.A., Weinand, D.C., Hames, W.E., Elam, J.M., Durband, A.C., and Agus, 2005, The first hominid fossil recovered from west Java, Indonesia: Journal of Human Evolution, v. 48, 661-667.
- Schultz, P., Zarate, M., Hames, W., Koeberl, C., Storzer, D., Bunch, T., and Renne, P., and Wittke, J., 2004, The Quaternary impact record of the Argentine Pampas: Earth and Planetary Science Letters, vol. 219, p. 221-238.
- Steltenpohl, M., Hames, W.E., and Andresen, A., 2004, The Silurian to Permian history of a metamorphic core complex in Lofoten, Northern Scandinavian Caledonides: Tectonics, v. 23.
- Solari, L.A., Keppie, J.D., Ortega-Gutierrez, F., Cameron, K.L., Lopez, R., Hames, W.E., 2004, 990 and 1100 Ma Grenvillian tectonothermal events in the northern Oaxacan Complex, southern Mexico; roots of an orogen: Tectonophysics, vol. 365, no.1-4, pp. 257-282.
- Keppie, J.D., Solari, L., Ortega-Gutierrez, F., Ortega-Rivera, A., Lee, J.K.W., Lopez, R., and Hames, W.E., 2004, U-Pb and <sup>40</sup>Ar/<sup>39</sup>Ar constraints on the cooling history of the northern Oaxacan Complex, southern Mexico: tectonic implications: Memoir, Geoogical Society of America, v. 197, p. 771-781.
- Solari, Luigi A, Keppie, J Duncan, Ortega-Gutierrez, Fernando, Ortega-Rivera, A, Hames, W E., Lee, J.K.W., 2004, Phanerozoic structures in the Grenvillian northern Oaxacan Complex, southern Mexico; result of thick-skinned tectonics: International Geology Review, vol.46, no.7, pp. 614-628.
- Steltenpohl, M.G., Hames, W.E., Andresen, A., and Markl, G., 2003, New Caledonian eclogite province in Norway and potential Laurentian (Taconic) and Baltic links: Geology (Boulder), vol.31, no.11, p. 985-988.
- Hames, W.E., McHone, J.G., Renne, P., and Ruppel, C., editors, 2003, The Central Atlantic Magmatic Province, Insights from Fragments of Pangea. Introduction. American Geophysical Union, Monograph Series, v. 136, p. 1-6 (267 pages total in volume).
- Salters, V.J.M., Ragland, P.C., Hames, W.E., Milla, K., and Ruppel, C., 2003, Temporal Chemical variations within lowermost Jurassic tholeiitic magmas of the Central Atlantic Magmatic Province: American Geophysical Union Monograph Series, 'The Central Atlantic Magmatic Province,' W. Hames, G. McHone, P. Renne and C. Ruppel, eds., American Geophysical Union, Monograph Series, p. 163-178, v. 136, 267 pages.
- King, D.T., Neathery, T.L., Petruny, L.W., Koeberl, C., and Hames, W.E., 2002, Shallow marine impact origin of the Wetumpka structure: Earth and Planetary Science Letters, v. 202, no. 3-4, p. 541-549.
- Kramer, A., Weinand, D.C., Djubiantono, T., Aziz, Fachroel, Hames, W.E., Elam, J.M., Bogard, J.S., Weeks, R.A., Sumarinda, Iman, Agus, Durband, A.C., 2001, Multidisciplinary paleonathropological excavations in the Rancah District of West Java, Report from 1999 field season: in, Sudijono and Aziz, Fachroel, editors, Publikasi Khusus – Pusat Penelitian dan Pengembangan Geologi (Special

Publication, Geological Research and Development Centre, Bandung National Museum, Indonesia), vol. 27, p. 67-79.

- Grafe, F., Stanek, K.P., Baumann, A., Maresch, W.V., Hames, W.E., Grevel, Ch., and Milan, G., 2001, Rb-Sr and <sup>40</sup>Ar/<sup>39</sup>Ar mineral ages of granitoid intrusives in the Mabujina unit, Central Cuba: Thermal exhumation history of the Escambray Massif: Journal of Geology, v. 109, p. 615-631.
- Hames, W.E., Renne, P.R., and Ruppel, C., 2000, New evidence for geologicallyinstantaneous emplacement of earliest Jurassic Central Atlantic magmatic province basalts on the North American margin: Geology, v. 28, no. 9, p. 859-862.
- Lewis, J.F., Hames, W.E., and Draper, G., 1999, Late Jurassic oceanic crust and upper Cretaceous Caribbean platform picritic basalts exposed in the Duarte Igneous Complex, Hispaniola: A Discussion: Journal of Geology, v. 107, p. 505-508.
- Ratcliffe, N.M., Hames, W.E., , and Stanley, R.S., 1999, Taconian orogeny in the New England Appalachians: Collision between Laurentia and the Shelburn Falls arc, discussion and reply: Geology, p. 381-382.
- Klein, A.C., Steltenpohl, M.G., Hames, W.,E., and Andresen, A., 1999, Ductile and brittle extension in the Lofoten archipelago, north Norway: implications for differences in tectonic style along an ancient collisional orogen: American Journal of Science, v. 299, p. 69-89.
- Ratcliffe, N.M., Hames, W.E., and Stanley, R.S., 1998, Interpretation of ages of arc magmatism, metamorphism and collisional tectonics in the Taconian orogen of western New England. American Journal of Science, v. 298, p. 791-797.
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- Hames, W.E., Hogan, J.P., and Gilbert, M.C., 1998, Revised granite-gabbro age relationships, southern Oklahoma Aulacogen USA: Basement Tectonics, v. 12, p. 247-249.
- Hames, W.E., and Cheney, J.T., 1997, On the retention of <sup>40</sup>Ar<sup>\*</sup> in polymetamorphic muscovite, Geochimica et Cosmochimica Acta, v. 61, no. 18, p. 3863-3872.
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- Hames, W.E., and Menard, T., 1993, Fluid-assisted modification of garnet composition along rims, cracks, and mineral inclusion boundaries in samples of amphibolite facies schists: American Mineralogist, v. 78, no. 3-4. p. 338-344.
- Hames, W.E., Tracy, R.J., Ratcliffe, N.M., and Sutter, J.F., 1991, Petrologic, structural, and geochronologic characteristics of the Acadian overprint on Taconian assemblages in southwestern New England: American Journal of Science, v. 291, p. 887-913.
- Armstrong, T.R., Tracy, R.J., and Hames, W.E., 1992, Contrasting styles of Taconian, Eastern Acadian, and western Acadian metamorphism, central and western New England: Journal of Metamorphic Geology, v. 10, p. 415-426.
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#### <u>Papers presented with published abstracts (\* = invited; \*\* = student author)</u>

- \*\*Bowman, Dannena, Hames, W.E., Steltenpohl, M. Andresen, A., 2007, New <sup>40</sup>Ar/<sup>39</sup>Ar muscovite cooling dates from Liverpool Land, East Greenland and their constraints to models of the collision between Baltica and Laurentia: Abstracts With Programs, Geological Society of America, v. 39, no. 6 (October, 2007).
- \*\*Key, Thomas, Steltenpohl, Mark, Hames, W.E., and Andresen, A., Reconciling metamorphic timing between Precambrian basement and Caledonian allochthonous cover in the Lofoten terrane, North Norway: Geological Society of America, Southeastern Section, 55th annual meeting, Abstracts With Programs, Geological Society of America, v. 39, no. 6 (October, 2007).
- Saunder, J., Kamenov, G., Unger, D., Udderback, W., and Hames, W.E., Mafic magmas as gold sources for epithermal deposits: insights from high-precision pb isotopic measurements of gold ores from diverse volcano-tectonic settings: Geological Society of America, Southeastern Section, 55th annual meeting, Abstracts With Programs, Geological Society of America, v. 39, no. 6 (October, 2007).
- Uddin, A., Hames, W.E., and Zahid, K., Rapid middle miocene denudation of the eastern Himalayas: laser <sup>40</sup>Ar/<sup>39</sup>Ar age constraints on Miocene sequences from the Bengal basin: Geological Society of America, Southeastern Section, 55th annual meeting, Abstracts With Programs, Geological Society of America, v. 39, no. 6 (October, 2007).
- Hames, W.E., Saunders, J., and Kamenov, G., Metallogeny and magmatism in the early Yellowstone hotspot: Geological Society of America, Southeastern Section, 55th annual meeting, Abstracts With Programs, Geological Society of America, v. 39, no. 6 (October, 2007).
- Kamenov, G., Saunders, J., and Hames, W.E., Lead isotope data from precious-metal minerals: implications for the genesis of bonanza epithermal Au-Ag-Se deposits of the northern great basin, USA: Abstracts With Programs, Geological Society of America, v. 39, no. 6 (October, 2007).
- Hames, W., and Lee, M.K., 2007, Dating Alabama groundwater using radioactive and noble gas tracers: Water Resource Conference, Auburn University, Auburn, AL.
- Billor, Zeke, Parlak, Osman, Caragolan, Fatih, and Hames, W..E., 2007, Timing of magmatism and metamorphism during the evolution of the southeast anatolian

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- Hames, W.E., McDonald, W.M., Tull, James, Barbeau, David, and Steltenpohl, M., 2007, Laser <sup>40</sup>Ar/<sup>39</sup>Ar ages of muscovite and evidence for Mississippian (visean) deformation near the thrust front of the southwestern Blue Ridge Province: Geological Society of America, Southeastern Section, 56th annual meeting, Abstracts with Programs - Geological Society of America, vol.39, no.3.
- \*\*Johnson, Reuben, King, David, and Hames, W.E., 2007, Wetumpka impact structure, Alabama: Geological Society of America, Southeastern Section, 56th annual meeting, Abstracts with Programs - Geological Society of America, vol.39, no.3.
- \*\*McDonald, Wayne, Marzen, Luke, and Hames, W.E., 2007, A GIS database for <sup>40</sup>Ar/<sup>39</sup>Ar age data of the southwestern blue ridge province: Geological Society of America, Southeastern Section, 56th annual meeting, Abstracts with Programs Geological Society of America, vol.39, no. 3.
- \*\*Johnson, Reuben C; Petruny, Loren M; Hames, Willis; King, David T, Jr, 2006, Shock metamorphic characteristics and age of the Wetumpka impact structure, Alabama: Geological Society of America, Southeastern Section, 55th annual meeting, Abstracts with Programs - Geological Society of America, vol.38, no.3, pp.82, Mar 2006.
- \*\*Morris, Daniel P; Hames, Willis; Salters, Vincent J M, 2006, The Clubhouse Crossroads flood basalts in the context of the CAMP and the SDRS: Geological Society of America, Southeastern Section, 55th annual meeting, Abstracts with Programs -Geological Society of America, vol.38, no.3, pp.8, Mar 2006
- \*\*McDonald, W.M., Marzen, L.J., and Hames, W.E., 2006, 40Ar/39Ar Ages of Micas from the Western Blue Ridge, Georgia and North Carolina: Department of Geology and Geography, Auburn University. 3<sup>rd</sup> Annual GIS Symposium, Auburn, AL. Referenced at http://auei.auburn.edu/gis/pdf/posters/mcdonald.pdf.
- \*Hames, W.E., 2005, Mass spectrometry and geologic age measurements in integrated STEM instruction: Geological Society of America, Abstracts with Programs, v. 37, no. 7, p. 151.
- Hames, W.E., Uddin, A., and Kandaker, Z., *in press*, Detrital mineral chemistry and age constraints on tertiary source terrain evolution for the Bengal basin: Geological Society of America, Abstracts with Programs, v. 37, no. 7 (October, 2005 Annual Meeting).
- \*\*Kandaker, Z., Uddin, A., Hames, W.E., and Odom, R., *in press*, Geochemical constraints on provenance of tertiary sediments in Assam, India, and the Bengal basin: Geological Society of America, Abstracts with Programs, v. 37, no. 7 (October, 2005 Annual Meeting).
- \*\* Majer, S., Kassos, G., Steltenpohl, M., Hames, W., Andresen, A., and Rehnstrøm, E., 2004, Our understanding of temporal and structural evolution of Lower-crustal continental basement of Lofoten-Vesteralen: a work in progress: Geological Society of America, Abstracts with Programs, v. 36, p. 69-1.
- \*\*Lavallee, S.B., Hames, W.E., 2003, Timing of deformation in the Gold Hill Fault Zone, Carolina Zone, North Carolina: Geological Society of America, Abstracts with Programs, v. 35, no. 1, paper 14-4.
- Miller, B.V., Hibbard, J.P., Standard, I.D., Hames, W.E., and Lavallee, S.B., 2003, U-Pb zircon and titanite ages from rocks associated with the Gold Hill fault zone, Carolina

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- \*\*Branton, W., Morris, D., and Hames, Willis E., 2001, Melt inclusions in basalt from deep drill cores near Charleston, SC: Implications for the dynamic magmatic system of the CAMP: Geological Society of America, Abstracts with Programs, v. 33, no. 2, p. 70.
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