

# Fenda A. Akiwumi Ph.D.

Department of Geography, Environment and Planning

(Affiliations: Africana Studies, Honors College)

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## EDUCATION

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### Ph.D. Environmental Geography 2006

Texas State University-San Marcos

- Advisor: David Butler; Committee Members: David Stea, Fred Shelley, Ronald Eyton
- Dissertation: *Environmental and social change in southwestern Sierra Leone: Timber extraction, 1832-1898 and rutile mining 1967-2005.*

### M.S. Hydrogeology 1989

University of London, U.K.

- Advisor: Glynn Jones
- Thesis: *Groundwater exploration and development in the crystalline basement rocks of Sierra Leone.*

### B.S. Geology 1977

University of Manchester, U.K. (Hons.)

- Thesis: *The structure and evolution of island arcs.*

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## ADDITIONAL POSTGRADUATE EDUCATION

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|--|-----------------------|
| International Training Services (ITS) Management Training Course for Scientists and Engineers Chester, UK,             | October 1988          |
| 10th Post-Graduate Training Course in Groundwater Tracing Techniques, Graz, Austria, (Austrian Government and UNESCO), | August-September 1985 |
| Fifth International Training Course on Remote Sensing for Water Resources, FAO Headquarters, Rome, Italy,              | May-June 1980         |

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## PROFESSIONAL POSITIONS

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| <b>Associate Professor</b><br>University of South Florida, FL                                  | <b>2012</b> |
| <b>Assistant Professor</b><br>University of South Florida, FL                                  | 2006-2012   |
| <b>Geography and Geology Instructor</b><br>Hill College, Hillsboro, TX                         | 1992-2006   |
| <b>Adjunct Lecturer, Hydrogeology</b><br>Fourah Bay College • University of Sierra Leone       | 1983-1985   |
| <b>Teacher, Geography and Chemistry</b><br>Freetown Secondary School for Girls<br>Sierra Leone | 1977-1978   |

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## RESEARCH INTERESTS

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I conduct research using a holistic perspective in three broad areas:

- Resource use and policy (water, mining, forests), human-environment interactions, sustainability issues, livelihoods, resource conflicts, cultural diversity
- African development and Africa-African Diaspora collaborations for development
- Geography education in the United States

## RESEARCH GRANTS

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| Grant Title   | Donor  | Investigators (PIs and Co-PIs)  | Grant Amount | Duration  |
|---|--|---|--------------|-----------|
| Assessing Vulnerabilities from Climate Change: Impacts of Water Provision, Power Relations and Perceptions of Risk on Ecohydrology in the Tampa Bay Region Socioecosystem | National Science Foundation grant  | Rebecca K. Zarger (PI)<br><b>Fenda A. Akiwumi</b><br>Mark C. Rains<br>David B. Lewis<br>Shawn M. Landry | \$88,766     | 2012-2013 |
| Urban development, power relations, and water redistribution as drivers of wetland change in the Tampa Bay urban ecosystem  | National Science Foundation ULTRA-EX grant                                   | David Lewis (PI)<br><b>Fenda A. Akiwumi</b><br>Thomas Crisman<br>Mark C. Rains<br>Rebecca K. Zarger     | \$289,352    | 2009-2012 |
| Understanding and promoting sustainability related to mercury exposures through integrated research, graduate education, and community involvement                        | USF Sustainable Healthy Communities Grant                                    | <b>Fenda A. Akiwumi</b><br>Maya Trotz<br>Amy Stuart   | \$392,631    | 2007-2009 |
| Water awareness, research and education in East Tampa (WARE East Tampa): A pilot collaboration involving USF, Young Magnet Middle School and the East Tampa Community.    | US EPA National Center for Environmental Research, P3 Challenge Area - Water | Maya Trotz (PI)<br><b>Fenda A. Akiwumi</b><br>Amy Stuart  | \$10,000     | 2008-2009 |

## PUBLICATIONS & CONFERENCES

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### Journal Articles (Peer-reviewed)

#### 2012

- Akiwumi, Fenda A. Global incorporation and local conflict: Sierra Leonean mining regions. *Antipode*. 44 (3): 581-600.
- Njoh, Ambe J. and Akiwumi, Fenda. Colonial legacies, land policies and the millennium development goals: Lessons from Cameroon and Sierra Leone. *Habitat International* 36(2): 210-18.

## 2011

- Akiwumi, Fenda A. Transnational mining corporations and sustainable resource-based livelihoods in Sierra Leone. *Singapore Journal of Tropical Geography* 32:53–70.
- Njoh, Ambe J. and Akiwumi, Fenda. The impact of religion on women empowerment as a millennium development goal in Africa. *Social Indicators Research* 107 (1): 1-18.
- Njoh, Ambe J. and Akiwumi, Fenda A. The impact of colonialism on access to improved water and sanitation in African cities. *Cities: The International Journal of Urban Policy and Planning* 28 (6):452-60.

## 2010

- Trotz, Maya A., Joniqua Howard, Ken Thomas, Erlande Omisca, Hong Ting Chiu, Trina Halfhide, Fenda Akiwumi, Ryan Michael, Amy L. Stuart. Total mercury loadings in sediment from gold mining and conservation areas in Guyana. *Environmental Monitoring and Assessment* 179 (1): 555-73.

## 2008

- Akiwumi, Fenda A. An assessment of hazards from gold mining in Sierra Leone. *Papers of the Applied Geography Conference* 31: 10-18.
- Akiwumi, Fenda A. and David R. Butler. Mining and environmental change in Sierra Leone, West Africa: A remote sensing and hydrogeomorphological study. *Environmental Monitoring and Assessment* 142: 309-18.
- Estaville, Lawrence E., Fenda A. Akiwumi, and Edris J. Montalvo. Ethnic diversity in geography undergraduate programs. Special Issue on Teaching Race, Ethnicity, and Place, *Journal of Geography* 107 (6): 3-11. Lead article.

## Book Chapters (Peer reviewed)

### 2012

- Akiwumi, F. 2012. Acqua, culture e conflitti nelle aree minerarie della Sierra Leone. In Rossi, A., L. D'Angelo (eds), *Antropologia, Risorse Naturali e Conflitti Naturali*, pp. 51-78. Milano - Udine, Mimesis, Italy.

### 2011

- Akiwumi, Fenda A. Legacies and challenges in integrating cultural diversity in the Sierra Leone water sector. In B.R. Johnston, L. Hiwasaki, I.J. Klaver, A. Ramos Castillo, V. Strang (eds.), *Water, Cultural Diversity & Global Environmental Change: Emerging Trends, Sustainable Futures?* pp 270-74. UNESCO/Springer, Netherlands.

### 2010

- Estaville, Lawrence E. Edris J. Montalvo, Fenda A. Akiwumi, Waverly C. Ray, and Niem Tu Huynh. Teaching geography undergraduate courses: Active learning. In *Geography Undergraduate Programs: Pathways to Success*. NCGE Pathways Series Online.
- Estaville, Lawrence E., Fenda A. Akiwumi, and Edris J. Montalvo. Ethnic diversity in geography undergraduate programs. In *Geography Undergraduate Programs: Pathways to Success* NCGE Pathways Series Online.

## 2009

- Akiwumi, Fenda A. and Lawrence E. Estaville. Somalis. in Maine. In John W. Frazier, Joe Darden, and Norah Henry (eds.) *The African Diaspora in North America at the Dawn of the 21<sup>st</sup> Century*, pp 257-270. Binghamton, NY: Global Academic Publishing.
- Blyden, Nemata and Fenda A. Akiwumi. A perspective of the African Diaspora in the United States. In John W. Frazier, Joe Darden, and Norah Henry (eds.) *The African Diaspora in North America at the Dawn of the 21<sup>st</sup> Century*, pp 93-108. Binghamton, NY: Global Academic Publishing.

## 2006

- Akiwumi, Fenda A. Conflict timber, conflict diamonds: The political ecology of 19<sup>th</sup> and 20<sup>th</sup> century resource exploitation in Sierra Leone. In Kwadwo Konadu-Agyemang and Kwamina Panford (eds.) *Africa's Development in the Twenty-First Century: Pertinent Socio-economic and Development Issues*, pp 109-126. VT: Ashgate.
- Akiwumi, Fenda A. Limitations to "indigenous people participation": Conflict in water use in an African mining economy. In Terje Tvedt and T. Ostigaard (eds.) *The World of Water* Vol. 3, IWHA Book Series, pp 49-77. U.K: I.B. Taurus.

## 2005

- Akiwumi, Fenda A. Indigenous people, women and water: The importance of local knowledge in water project planning in an African context. In Jonathan Chenoweth and Juliet Bird (eds.) *The Business of Water and Sustainable Development*, pp 188-197. U.K.: Greenleaf Publishing (reprint).

## Submitted Papers

### In Revision

- Akiwumi, Fenda A. Linking mining regulations to environmental degradation in Sierra Leone: Knowledge for advocacy. (*Journal of Cleaner Production*).

### In Review

- Akiwumi, Fenda A. and David C. Viertel. Vegetation and land use changes from rutile dredge-mining in Sierra Leone (*Geojournal*).

## Papers in Progress and Potential Journals

- Strangers, indigenes and Sierra Leone mining: Alliances and antagonism and policy challenges (*Political Geography, African Affairs*)
- African dual governance systems and resource management: Challenges to sustainable development in Sierra Leone (*African Geographical Review, Journal of Rural Studies*)

## Encyclopedia Entry (Peer reviewed)

## 2010

- Akiwumi, Fenda A. and Philip van Beynen. Open pit mining. *Encyclopedia of geography*. Sage Publications.

## Non Peer-Reviewed Publications

## 2008

- Estaville, Lawrence E. and Fenda A. Akiwumi. Guest co-editors. Introduction. Thematic Issue on Race, Ethnicity, and Place, *Journal of Cultural Geography* 25 (3): 221-22.

- Blyden, Bai K. and Fenda A. Akiwumi. 2008. Unrealized potential in Africa. *IEEE Power and Energy Magazine* 6 (4): 52-58.
- Contributor: UNESCO. 2008. Water and cultural diversity: Towards sustainability of water resources and cultures. UNESCO IHP, Division of Water Sciences.

### **Book Project**

- Strangers: Resource Extraction and Sierra Leone Conflicts (Manuscript in progress)

### **Published Conference Proceedings**

#### **1997**

- Akiwumi, Fenda A. The need for more widespread use of geological criteria in water quality assessment in Africa. *IAHS Publication*, no. 243, pp 359-365. *Freshwater Contamination* (Proceedings of the Rabat Symposium S4, April-May 1997).
- Akiwumi, Fenda A. Conjunctive water use in an African river basin: A case study in poor planning. *IAHS Publication*, no. 240, pp 495-502. *Sustainability of Water Resources under Increasing Uncertainty* (Proceedings of the Rabat Symposium S1, April 1997).

#### **1996**

- Akiwumi, Fenda A. 1998. Effects of a dredge mining operation on the hydrogeological regime in a humid tropical environment. *IAHS Publication*, no. 253, pp 3-14. *Hydrology in the Humid Tropic Environment* (Proceedings of a symposium held at Kingston, Jamaica, November 1996).

#### **1994**

- Akiwumi, Fenda A. Reducing costs of monitoring networks in developing countries by collation and analysis of pre-existing hydrogeological data. *IAHS Publication*, no. 222, pp 481-490. *Future Groundwater Resources at Risk* (Proceedings of the Helsinki Conference, June 1994).
- Akiwumi, Fenda A. Some humanistic perspectives on sustainable water resources development in an African nation. (Proceedings International UNESCO Symposium on Water Resources Planning in a Changing World, pp 21-31, Karlsruhe, Germany, June 1994).

#### **1987**

- Akiwumi, Fenda A. Groundwater exploration and development in the crystalline basement rocks of Sierra Leone. In: *Groundwater Exploration and Development in Crystalline Basement Aquifers*. (CSC (89) WMR-13 TP273) vol. II, pp 431-438 (Proceedings of the Harare Conference, June 1987).
- Akiwumi, F., S. C. Jayakaran, and S. Owusu. Rural water supply development in Sierra Leone. (Proceedings 13th Water, Environment and Development Conference (WEDC), Lilongwe, Malawi, April 1987).

#### **1983**

- Akiwumi, F. Some environmental considerations in improved water management for agriculture. (Proceedings of the Seminar on "The Role of Extension in Environmental Management and Agriculture." Freetown, Sierra Leone: FAO/UNDP, USAID, MANRF, May 1983).

#### **1982**

- Akiwumi, F. Water resources development in Sierra Leone: A summary of proposals and developments in the field of water resources planning. (Proceedings of the seminar on "Land Use Planning for Rural Development with Special Attention to Environmental Management." Freetown, Sierra Leone: FAO/UNDP, USAID, MANRF, November 1982).

### **Technical Reports**

- Jayakaran, S., and F. Akiwumi. 1986. A study of saltwater intrusion carried out in Port Loko, Kambia District for rural water supply project Port Loko-Kambia Districts. Freetown, Sierra Leone: LWDD/MANRF.
- Jayakaran, S., and F. Akiwumi. 1985. Report on surface geo-electric prospecting for ground water carried out in Sierra Leone. Freetown, Sierra Leone: LWDD/MANRF.
- Blyden, F., and D. C. Schwaar. 1980. The lineaments of the basement complex of Sierra Leone: A reconnaissance survey and appraisal for ground water. *Technical Document 39*. SIL/73/002 LRSP, FAO/UNDP/MANRF.
- Blyden, F., C. Palmer, and A. Williams. 1979. Investigations to determine the extent of internal waters in Sierra Leone. Freetown, Sierra Leone: LRSP, FAO/UNDP/MANRF.

### **Consultancy Work and Reports**

- Lamin A. S, Akiwumi F. A. et al. 1991. Water balance of the Sierra Rutile mining area: Water year May 1990 - April 1991. Report to Sierra Rutile Ltd., Freetown, Sierra Leone: ESCG.
- Akiwumi F. A., Lamin, A.S. et al. 1991. The effects of the Lanti move water reticulation on downstream areas. Report to Sierra Rutile Ltd., Freetown, Sierra Leone: ESCG.
- \_\_\_\_\_. 1991. A preliminary assessment of potential seepage losses beneath the Lanti ponds. Report to Sierra Rutile Ltd., Freetown, Sierra Leone: ESCG.
- \_\_\_\_\_. 1990. Water balance of the Sierra Rutile mining area: A preliminary study. Report to Sierra Rutile Ltd., Freetown, Sierra Leone: ESCG.
- \_\_\_\_\_. 1990. Water management and environmental impact assessment of the Sierra Rutile mining operations. Report to Sierra Rutile Ltd., Freetown, Sierra Leone: ESCG.
- Akiwumi, F. 1987. The appraisal of water supply potential at the new locations for Pejebu, Vaama and Mondoko. Report to Sierra Rutile, Ltd. Freetown, Sierra Leone.

### **Published Abstracts from Professional Presentations**

#### **2012**

- Michael, Ryan, Amy L. Stuart, Maya Trotz, and Fenda Akiwumi. Source attribution of atmospheric mercury deposition to Tampa using positive matrix factorization. *APHA 140th Annual Meeting and Exposition* San Francisco, CA, October (referred).
- Blyden's early ideas on sustainable development and science in Africa. *Race Ethnicity and Place Conference VI*, San Juan, Puerto Rico. October.
- Akiwumi, Fenda A. Strangers in our house: Indigenes, land rights, and Sierra Leone mining conflicts. *Ninth International Mining History Congress (IMHC)*, Johannesburg, South Africa, April (refereed).
- Zarger, R.K., F. Akiwumi, D. Lewis, G. Larsen, C. Adjei, S. Landry. The power of perceptions: Hydroecological change and water redistribution in Tampa Bay. *Society for Applied Anthropology (SfAA) 72<sup>nd</sup> Annual Meetings*, Baltimore, MD, March.

- Akiwumi, Fenda A., David B. Lewis, Rebecca K. Zarger, Shawn M. Landry, Mark C. Rains, Kenneth A. Nilsson, Cornelius O. Adjei, Sharon J. Feit, Gina M. Larsen, Ralph B. Perkerson, Paul E. Thurman, Thomas L. Crisman, Susan S. Bell, Carl C. Trettin. Urban development, power relations, and water redistribution as drivers of wetland change in the Tampa Bay region socioecosystem. *The Association of American Geographers (AAG) 108<sup>th</sup> Annual Meeting*, New York, New York, February.

## 2011

- Akiwumi, Fenda A. Water and African dual governance systems: Challenges to the MDGs in Sierra Leone. *The 34<sup>th</sup> Annual Applied Geography Conference (AGC) conference*, Redlands, CA, October.
- Lewis, David, Rebecca Zarger, Shawn Landry, Fenda A. Akiwumi, Mark C. Rains, Kenneth A. Nilsson Cornelius O. Adjei, Sharon J. Feit, Gina M. Larsen, Ralph B. Perkerson, Paul E. Thurman, Thomas L. Crisman, Susan S. Bell, Carl C. Trettin. Urban development, power relations, and water redistribution as drivers of wetland change in the Tampa Bay region socioecosystem, *96<sup>th</sup> Ecological Society of America (ESA) Annual Meeting*, Austin, Texas, August (refereed).
- Akiwumi, Fenda A. Mining policy, water and indigenous sacred places in Sierra Leone. *The Association of American Geographers (AAG) 107<sup>th</sup> Annual Meeting*, Seattle, Washington, April.
- Lewis, David, Rebecca Zarger, Shawn Landry, Fenda Akiwumi, Mark Rains, Thomas Crisman, Susan Bell, Carl Trettin. Urban development, power relations, and water redistribution as drivers of wetland change in the Tampa Bay region socioecosystem, *2011 US-IALE Symposium - Sustainability in Dynamic Landscapes*, Portland, Oregon. April (refereed).
- Njoh, Ambe J. and Akiwumi, Fenda. Colonial heritage and land laws in Africa: The impact of colonialism on land laws in Cameroon and Sierra Leone. *Urban Affairs Association (UAA) 41<sup>st</sup> Conference*, New Orleans, Louisiana. March (refereed).

## 2010

- Akiwumi, Fenda A. Funding *muglomie* womens' cooperative: Challenges and opportunities. *Race Ethnicity and Place (REP) Conference V* Binghamton, NY. October.
- Akiwumi, Fenda A. Water, cultural diversity and environmental disavowal: Explorations from Sierra Leone. *The Association of American Geographers (AAG) 106<sup>th</sup> Annual Meeting*, Washington DC. April.

## 2009

- Akiwumi, Fenda A. Global incorporation, local conflict: Mining in Sierra Leone. *The Association of American Geographers (AAG) 105<sup>th</sup> Annual Meeting*, Las Vegas. NV. March.
- Halfhide, Trina C., Akiwumi, F., Trotz, M., Stuart, A., Howard, J., Michael, R. Mercury perception, community awareness and sustainability implications for the Tampa Bay region, Florida. *The Association of American Geographers (AAG) 105<sup>th</sup> Annual Meeting*, Las Vegas, NV. March.
- Trotz, M. A., A. Stuart, A., Akiwumi, F. Diaspora linkages for building international, interdisciplinary university partnerships on sustainability in US graduate education and research. *Association of Environmental Engineering and Science Professors (AEESP) 2009 Education and Research Conference*, Iowa City, IO. July (refereed).

- Trotz, M. A., Howard, J.H., Stuart, A., Akiwumi, F. Mercury sorption to river sediments from the Hillsborough River: Potential impacts from climate change. *American Chemical Society (ACS) 237<sup>th</sup> National Conference & Exposition*, Salt Lake City, UT. March (refereed).
- Howard, J.H., Thomas, K.D., Omisca, E., Stuart, A., Akiwumi, F., Trotz, M. A. Mercury exposed: An interdisciplinary field based class in Guyana on sustainability. *American Chemical Society (ACS) 237<sup>th</sup> National Conference & Exposition*, Salt Lake City, UT. March (refereed).

#### 2008

- Akiwumi, Fenda A. World-systems linkages to gendered sustainable households. *The Association of American Geographers (AAG) 104<sup>th</sup> Annual Meeting*, Boston, MA. April.
- Akiwumi, Fenda A. Assessing hazards from gold mining in Sierra Leone. *The 31<sup>st</sup> Annual Applied Geography Conference (AGC)* Wilmington, DE. October.
- Stuart, Amy, Trotz, Maya, Akiwumi, Fenda. An integrated student centered study of mercury in the Tampa Bay area. *American Public Health Association (APHA) 2008 136<sup>th</sup> Annual Meeting*, San Diego CA. October (refereed).
- Blyden, Nemata and Akiwumi, Fenda A. African women's groups in the United States: A Sierra Leone case study. *Race Ethnicity and Place Conference (REP) IV*, Miami, FL. November.

#### 2007

- Akiwumi, Fenda A. and Jaward, Foday M. World-systems processes and mine waste generation in Sierra Leone, Africa. *Conference on 'Dangerous trade: Histories of industrial hazards across a globalizing world'*, Stony Brook University, NY. December (refereed).
- Akiwumi, Fenda A. Destined to be dammed? Hydropower policy and exploitation in Africa. *The 30<sup>th</sup> Annual Applied Geography Conference (AGC)*, Indianapolis, IN, .October.
- Akiwumi, Fenda A. and Estaville, Lawrence E. Somalis in Maine. *The 30<sup>th</sup> Annual Applied Geography Conference (AGC)*, Indianapolis, IN. October.
- Akiwumi, Fenda A. Afro-European trader-kings, Creole entrepreneurs and Mende warriors: Local agency and environmental deterioration in Sierra Leone's nineteenth century timber trade. *Fourth European Society of Environmental History (ESEH) Conference*, Amsterdam, The Netherlands. June (refereed).
- Akiwumi, Fenda A. Female marginalization and the world-system: Adaptation and survival in an African mining environment. *Society for Applied Anthropology (SfAA) 67<sup>th</sup> Annual Meetings*, Tampa, FL. March.

#### 2006

- Akiwumi, Fenda A. Strangers in our house: Ethnicity and place in mining regions of Sierra Leone, West Africa. *Race Ethnicity and Place (REP) III Conference* San Marcos, TX. November.
- Akiwumi, Fenda A. Rural places in the world-system: Sierra Leone's nineteenth century timber extraction environment. *The Association of American Geographers (AAG) 102<sup>nd</sup> Annual Meeting*, Chicago, IL. March.

#### 2005

- Akiwumi, Fenda A. Women and water projects in Sierra Leone: The paradox of female empowerment. *National Women's Studies Association (NWSA) Annual Conference on Women and the Environment: Globalizing and Mobilizing*, Orlando, FL. June.



- Akiwumi, Fenda A. Challenges to Africa's water development: The paradox of "indigenous community participation. *The Association of American Geographers (AAG) 101<sup>st</sup> Annual Meeting*, Denver, CO. April.

#### **2004**

- Akiwumi, Fenda A. Water is mystical space: Indigenous perspective and project planning in Sierra Leone, West Africa. *The Applied Geography Conference (AGC)* St. Louis, MO. October.

#### **2003**

- Akiwumi, Fenda A. Conflict timber: The political ecology of 19<sup>th</sup> century resource exploitation in Sierra Leone. *International Conference on the Forest and Environmental History of the British Empire and Commonwealth*, University of Sussex, UK. March (refereed).
- Akiwumi, Fenda A. Conflict parallels in 19<sup>th</sup> and 20<sup>th</sup> century Sierra Leone: Timber, minerals, death and the nation-state. *The Association of American Geographers (AAG) 99<sup>th</sup> Annual Meeting*, New Orleans, LA. April.

#### **2001**

- Akiwumi, Fenda A. Apparent limitations to "indigenous people participation": Conflict in water use in an African mining economy. *The 2<sup>nd</sup> International Water History Association (IWHA) Conference on the Role of Water in History and Development*, Bergen, Norway. August (refereed).

#### **1998**

- Akiwumi, Fenda A. Water use in an African setting: History, culture and perception as a barrier to sustainability. *The International Association of Hydrological Sciences (IAHS) International Workshop on Barriers to Sustainable Management of Water Quantity and Quality*, Wuhan, China. May.

### **Invited Presentations**

#### **2011**

- Akiwumi, Fenda A. Cultural perspectives and sustainable African resource policies. *Inaugural International Conference of the Institute of Environmental Diplomacy and Security (IEDS)*, University of Vermont, October.

#### **2010**

- Akiwumi, Fenda A. Water and cultural diversity in an African nation: Challenges to sustainable development. *National Conference on Water: Key to Regional Stability*, School of Public Health, University of South Florida, FL. September.

#### **2009**

- Akiwumi, Fenda A. Legacies and challenges to integrating cultural diversity in the Sierra Leone water sector. *RIHN.UNESCO.UNU-IAS International Symposium on 'Water, Cultural Diversity and Global Environmental Change: Emerging Trends, Sustainable Futures?* Kyoto, Japan. October.

### **Awards and travel grants**

#### **2008**

- Globalization Center Travel Grant to conduct research in Sierra Leone (\$1000)

#### **2007**

- University Conference Travel Grant to attend European Society for Environmental History (ESEH) Conference in The Netherlands (\$1500)

#### **2006**

- Brooks Cole Award for Outstanding Doctoral Student, Texas State University (\$250)

**1998**

- National Institute for Staff and Organizational Development's (NISOD) Excellence in Teaching Award for Community College Faculty

**Conference Session Organizer, Chair, and Panelist****2012**

- Session Organizer (with Nemata Blyden) and Chair, Africa - African Diaspora Linkages for Development: Edward Wilmot Blyden on Race Ethnicity and Place. Race Ethnicity and Place Conference VI, San Juan, Puerto Rico. October.

**2011**

- Session Organizer and Chair, Mining, Water and Environment in Africa, Association of American Geographers, Seattle, WA. April.
- Session Panelist, Resilient Tampa Bay, Workshop, Patel School of Global Sustainability, University of South Florida, Tampa, FL. March.

**2010**

- Session Panelist, Ethnic Diversity in Geography: Departmental Champions, Association of American Geographers, Washington D.C. April.
- Session Organizer (with Nemata Blyden) and Chair, African Diaspora-Continent Linkages and Development Initiatives, Race Ethnicity and Place V Conference, Binghamton, NY. October.

**2009**

- Session Panelist, Ethnic Diversity in Geography Undergraduate Programs. Association of American Geographers, Las Vegas, NV. March.

**2008**

- Session Organizer (with Martin Bosman) and Chair, Multiracials and Multi-ethnics in America, Race Ethnicity and Place Conference IV, Miami, FL. November.
- Session Panelist, The African Diaspora in the U. S. and Canada I, Association of American Geographers, Boston, MA. April.
- Session Chair, Water Resources I, Applied Geography Conference, Wilmington, DE. October.

**2007**

- Session Panelist, (1) Ethnic Geography Researchers Giving Back (2) Global Perspectives on Gender-Water Geographies III, Association of American Geographers, San Francisco, CA. April.

**2006**

- Session Organizer and Chair, (1) Toyin Falola on African Nationalism (2) The Tiger Woods Dilemma: Reflections on Multiracial and Multiethnic Americans, Race Ethnicity and Place III Conference, San Marcos, TX. November.
- Session Panelist, Diversity in Geography Departments: Student Perspectives, Association of American Geographers, Chicago, IL. March.

**2005**

- Session Panelist, Recruiting and Retaining African-American and Latino Students for Geography Departments: Student Perspectives, Association of American Geographers, Denver, CO. April.

## 1998

- Session co-Chair, Problems in Arid and Semi-arid Areas, International Workshop on Barriers to Sustainable Management of Water Quantity and Quality, Wuhan, China.

## TEACHING

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### Courses

#### **Graduate**

- GEO 6209C Seminar in Physical Geography: Anthropogenic Change Processes
- EVR 6937 Seminar in Environmental Policy: Sustainability and Development
- GEO 6970 Geographic Research Design
- GEO 6119 Sustainability Concepts and Mercury
- GEO 6971 Masters Thesis
- GEO 6918 Directed Research
- GEO 6908 Independent Study
- LAS 6913 Towards Democracy and Diversity: Increasing the Content Knowledge and Pedagogical Skills of Caribbean Educators.

#### **Undergraduate**

- GEO 4372 Global Conservation
- EVR 4930 Sustainability and Development
- EVR 4930 Environmental Conservation and Policy
- GEO 4905 Independent Study
- GEO 4900 Directed Reading
- GEA 2000 World Regional Geography
- IDH 4200 Geographical Perspectives: Sub-Saharan Africa in Historical and Contemporary Perspective

### Doctoral Dissertation Committees

- **Research Advisor/Dissertation Director:**
- Cornelius Adjei, Geography ESP (2012 - ). Wetland management policy and mining in comparative perspective, United States and Ghana
- **Committee Member**  
Joniqua Howard, Civil Engineering (2007-2010 graduated). Mercury in the environment: Field studies from Tampa, Bolivia and Guyana.
- Kristina Baines, Anthropology (2010 – 2012 graduated). Good men grow corn: Embodied ecological heritage and health in a Belizean Mopan community.
- Richard Seth Carlson, Geography ESP (2011 - ). From green buildings to green districts: The role of green buildings in sustainable communities.

- Baboucar Jobe, Anthropology (2011- ). Topic: Rural water project management, Gambia, West Africa
- John Freeman, Geography (2010 - ). Topic: Natural hazards response systems
- Pamela Joe Hatley, Urban Planning (2012- ). Topic: Environmental Regulation
- Ryan Michael, Public Health (2007 - ). Topic: Systems modeling of mercury in the environment
- Colleen Naughton, Environmental Engineering (2009 - ). Topic: Gender and development in Africa
- Leslie North, Geography ESP (2009 -2011 graduated). Informal karst education in the United States and abroad.
- Erlande Omisca, Civil Engineering (2008-2011 graduated). Environmental health in the Latin American and Caribbean region: Use of water storage containers, water quality and community perception.

### **Masters Thesis Committees**

#### **Research Advisor/Thesis Director:**

- Cornelius Adjei, Geography ESP (2010 – 2012 graduated). Power relations, citizen action and wetland development in Tampa Bay region, Florida.
- Susanna Alvaredo, Geography ESP (2012 - ). Topic: Water quality perceptions
- Irene Bescos Rehberger, Geography ESP (2011 – 2012 graduated). Sustainable livelihood analysis of an irrigation project in Ta Haen, Cambodia: Vulnerabilities and capabilities of a rural community.
- Trina Halfide, Geography ESP (2007 - 2009 graduated). Mercury perception, community awareness and sustainability implications for the Tampa Bay region, Florida.
- Vernice Camille Hippolyte, Geography (2009 - ). Pitons Management Area: World heritage status, governance, perception and economic development.
- Ann Persaud, Geography ESP (2011 - ) Topic: Virtual water
- Fatima Turay-Conteh, Geography ESP (2009 - ). Implementation of environmental policies in Sierra Leone: The Western Area peninsula forest reserve.

#### **Committee Member:**

- Josh Berger, Geography (2008 - 2009 graduated). Sugar ethanol in Florida: Economic, agricultural, and environmental aspects.
- Joshua Girard, Environmental Engineering (2010 – 2011 graduated). Feasibility of wastewater reuse for fish production in small communities in developing world settings.
- Loraamm, Rebecca, Geography ESP (2010 – 2012 graduated). Road based landscape metrics for quantifying habitat fragmentation.
- Charles McCrackin, Geography ESP (2010 – 2012 graduated). Quasi 3-dimensional electrical resistivity for mapping air-filled karst conduits and policy implications.
- John Merrill, Geography (2007 - 2008 graduated). Water management and decision-making in the Nile Basin: A case study of the Nile Basin initiative.
- Kevin Orr, Environmental Engineering (2009 – 2011 graduated). Disinfection of community gravity flow water systems in rural Panama.

- Erin Steuer, Geography (2007 - 2008 graduated). A private commodity or public good? A comparative case study of water and sanitation privatization in Buenos Aires, Argentina, 1993-2006.
- Bryan Williamson, Africana Studies (2012- ). The Burkina Faso revolution of August 1983: A critical analysis.

**Committee Member - Masters Degree by Comprehensive Exam**

- Ashley Nicol (2012)
- Daniel Merced (graduated 2012)
- Edgar Kopp (graduated 2012)
- Christopher Cochran (graduated 2011)
- Tyler Huffman (graduated 2010)
- Jennifer Ascani (graduated 2010)

**Committee Members - Undergraduate Honors Thesis**

- Alexandros Tapper, Public Health (graduated 2009). Mercury exposure routes from dental amalgams and methods of reduction.
- Christopher Poitevien, Geology (graduated 2011). Natural disaster plans and how they need to be fixed.

**PROFESSIONAL SERVICE**

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**2012**

- Reviewer – *Land Use Policy, Geojournal, Environmental Management, African Geographical Review* (journals), Oxford University Press (book)

**2011**

- Grant Reviewer for the Standard Research Grants program of Social Sciences and Humanities Research Council of Canada (SSHRC)
- Member of Departmental Graduate Committee involved in making decisions on admissions to the graduate degree programs and Colloquium Committee in the Department of Geography, Environment and Planning, USF

**2010 – 2013**

- Faculty Advisory Board Member, Patel School of Global Sustainability, USF

**2010**

- Guest Lecturer, Department of Culture and Communication, University of Calgary, June 2010
- Presenter: Department of Integrated Biology, USF colloquium

## 2009

- Invited lecturer, developed and taught class on geography for summer seminar: Towards Democracy and Diversity: Increasing the Content Knowledge and Pedagogical Skills of Caribbean Social Studies Educators. The seminar was for teachers from Haiti and the Dominican Republic sponsored by the US Department of State, and the College of Education and Kiran C. Patel Center for Global Solutions, USF. My lecture topic was “Human and Natural Resources of the United States: Overview of US geography with Comparison to Human and Natural Resources of the Dominican Republic and Haiti.”

## 2009-2010

- Co-developed and conducted workshop with Maya Trotz (engineering) and Amy Stuart (Public Health) for the Center for 21st Century Teaching Excellence, USF on: Working with Students in Interdisciplinary Courses taught in November 2009 and March 2010

## 2009

- Presenter: USF Eric Symposium lecture series (St Petersburg Campus)

## 2008- 2010

- Member and Inaugural Chair, UNESCO International Hydrological Program (IHP) Expert Advisory Group on Water and Cultural Diversity. Water and Cultural Diversity is to be mainstreamed into the organizations Integrated Water Resources Management (IWRM) approach. The task of the advisory group is to develop culturally sensitive methodological guidelines and policy recommendations for water and cultural diversity as part of UNESCO IHP: “Strengthening Water Governance for Sustainability” for the biennium 2008 – 2009 and is a sub-project under the seventh phase of the IHP (IHP-VII: 2008 – 2013): “Water Dependencies: Systems under Stress and Societal Responses.”

## 2008

- Guest co-editor, *Journal of Cultural Geography* (special issue on Race, Ethnicity and Place)
- Presenter: USF Eric Symposium lecture series (Tampa Campus)

## 2007

- Faculty participant, USF Study abroad program to Ghana, May 16-30

## 2007-09

- Reviewer: *African Geographical Review*, *Southeastern Geographer*, *African Journal of Environmental Science and Technology*, *Geology and Geotechnology*

## 2006-09

- Member of Departmental Environmental Science and Policy Committee involved in revising and standardizing the undergraduate and graduate degree curricula for the Environmental Science and Policy track in the Department of Geography

## 2006

- Presenter: USF Eric Symposium lecture series (Tampa Campus)

## PROFESSIONAL AFFILIATIONS

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- Association of American Geographers (**AAG**) - (Specialty Groups: Africa, Water Resources, Indigenous People, Ethnic Geography)
- Southeastern Division of the Association of American Geographers (**SEDAAG**)
- International Water History Association (**IWHA**)

## **OTHER ACTIVITIES**

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### **2004**

- Participating faculty in summer institute hosted by The Gilbert M. Grosvenor Center for Geographic Education, Department of Geography, Texas State University-San Marcos to motivate and encourage African-American and Hispanic youths to seek higher education.
- Volunteer – helped to organize Geography Department Alumni Reunion Celebration at Texas State University, April 2004.

### **1995-2000**

- Contributor: International Journal on Hydropower and Dams. Provided hydrological information on Sierra Leone for World Atlas of Hydropower and Dams.

### **1998**

- Guest lecturer: Toyin Falola's Fall 1998 Guest Speaker Series, Center for African and African American Studies, University of Texas at Austin. Topic: The Politics and Culture of Water in West Africa.

### **1997**

- Reviewer: United States Institute of Peace (USIP) - selected to review applications of candidates for participation at the June 1997, USIP Community College Faculty Seminar.

### **1996**

- Participant: United States Institute of Peace (USIP) Community College Faculty Seminar on 'Approaches to Peace in a Changing World', Washington D.C., USA June.

### **1995**

- Consultant: Jemison Institute for the Advancement of Technology to Developing Countries at Dartmouth College - reviewed and edited project proposal.

### **1992**

- Co-founder: "Voyage to Africa." Present educational summer programs for children at community and youth centers; lectures and presentations on African culture at schools, churches, service and social organizations.

### **1986**

- Participant, UNESCO West African Sub-regional Workshop on Groundwater in Rural Water Supply, Accra, Ghana. October.

### **1984**

- Participant, FAO Workshop on Small Scale Swamp Development, Freetown, Sierra Leone. November.