

CURRICULUM VITAE

PERSONAL AND CONTACT DETAILS

- ❖ **Full Name:** EGIRANI, Davidson Enoni
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 - ❖ **Institution Address:** Faculty of Science, Niger Delta University, Wilberforce Island, Nigeria
 - ❖ **Country of Residence:** United Kingdom
 - ❖ **Postal Address:** 3 Ashbourne Tower, Watling Road, NR7 9TJ, Norwich, United Kingdom
- Educational Institutions Attended with Dates;**
- ❖ University of The West of England, Bristol, United Kingdom, Sept 2005 – Jan 2006;
 - ❖ University of East Anglia, Norwich, United Kingdom, October 2001-Septemeber 2004
 - ❖ University of Ibadan, Ibadan, Nigeria, October 1986- November 1988,
 - ❖ University of Ibadan, Ibadan, Nigeria, October 1979-July 1982,

xi. Academic Qualifications Obtained with Dates;

- ❖ Post-Graduate Certificate Eligibility, Environmental Health Studies, February 2006;
- ❖ Ph.D, Environmental Science (Environmental Geochemistry), July 2005;
- ❖ M.Sc, Geology (Mineral Exploration), November 1988;
- ❖ B.Sc, Geology, July 1982;

Professional Development Qualifications Obtained with Dates;

- ❖ Core foundation for teaching course, 2011 at Recruitment Development Solutions, United Kingdom;
- ❖ Essential profit strategies to grow geo-environmental business and increase profit, 2010, [online: <http://www.ChrisCardellVIP.co.uk>];
- ❖ Research skills' training in laboratory and fieldwork, 2002 at University of East Anglia, United Kingdom;
- ❖ Geo-environmental management and poverty reduction thru CBMS, 2007, at Angelo King Institute for Economic & Business Studies, Philippines;
- ❖ Mineral Development Council capability building for stakeholders in the environment and natural resource sectors, 2006, Office of the President of the Philippines;

Working Experience including full details of former and present post(s);

- ❖ Lecturer, Niger Delta University, Wilberforce Island, Nigeria, September 2001 to Date; with trainings as:

- ❖ Advisor on geo-environmental management services to the Governor of Eastern Samar, the Philippines [Leave of absence];
- ❖ Advisor on geo-environmental management services to the Governor of Agusan del Sur, the Philippines [Leave of absence];
- ❖ Environmental Health Trainee Practitioner, Bassetlaw District Council, United Kingdom;
- ❖ Demonstrator, University of East Anglia, Norwich, UK, (Part-Time), Oct 2001- Sept 2004;
- ❖ Lead Consultant, geo-environmental services, Nigeria, February 1999-Aug 2001;
- ❖ Principal Lecturer, Benue Polytechnic, Ugbokolo, Nigeria, Jan 1984- Jan 1999;

Full details of teaching and research experience and service to the nation and immediate community where applicable;

Teaching Experience:

- ❖ Taught geology students at tertiary level of education;
- ❖ Supervised geology and environmental science students' practical and laboratory work at tertiary level of education;
- ❖ Supervised geology students' projects at tertiary level of education
- ❖ Conducted geology examinations and marked examination scripts at tertiary level of education;

Research Experience:

- ❖ Conducted independent geological and geo-environmental research at tertiary level of education, for research companies, agencies and universities;

Educational Community Service:

- ❖ Conducted counseling sessions for students at tertiary level of education in Nigeria;
- ❖ Appointed and worked as member, technical expert committee in educational blue print development for Bayelsa State;
- ❖ Screened student's admissions at tertiary level of education in Nigeria;
- ❖ Appointed and worked as Examination Officer, Head of Department, Dean of School, Member, Governing Council; Benue Polytechnic, Nigeria;
- ❖ Appointed as member, Governing Council, defunct Bayelsa State Polytechnic, Yenagoa, Nigeria.,
- ❖ Appointed and worked as Reviewer, journal of colloid and interface science, United States of America;
- ❖ Appointed as Chief Training Officer, Nigerian Institute of Mining and Geosciences, Jos, Nigeria.,

List of Publications

Published Articles:

- ❖ Egirani, D.E. (2004), Comments on Removal of Copper ions from Aqueous Solution by Tree Ferns, *Water Research*, 38, 4535, [online at <http://www.elsevier.com>];
- ❖ Egirani, D.E, Baker, A.R and Andrews, J.E (2005), Copper and Zinc Removal from Aqueous Solution by Mixed Mineral Systems I: Reactivity and Removal Kinetics, *Journal of Colloid and Interface Science* 291, 319–325, [online at <http://www.elsevier.com>];
- ❖ Egirani, D.E, Baker, A.R and Andrews, J.E (2005), Copper and Zinc Removal from Aqueous Solution by Mixed Mineral Systems II. The Role of Solution Composition and Aging, *Journal of Colloid and Interface Science* 291, 326–333, [online at <http://www.elsevier.com>];
- ❖ Egirani D.E. . Obande, O.D & Mbatyav. I. J. 2002, Industrial potential of Mbtyav limestone, Benue State, Nigeria, *Intr. J. Environ, Sci. & Technol.* 33, 2760-2765[online at <http://www.enopmcservices.com>];
- ❖ Okenyi L.O. & Egirani, D.E. 2004, The relevance and impact of professional counseling on land use and development in Nigeria: the Benue experience, *Intr. J. Environ, Sci. & Technol* 34, 2920-2925, [online at <http://www.enopmcservices.com>];
- ❖ Egirani D.E. & Obande O.D, 2003, Utilization of Makurdi River sand for sanitaryware and glass making, *Intr. J. Environ, Sci. & Technol.* 34, 2810-2814, [online at <http://www.enopmcservices.com>];
- ❖ Egirani, D.E., 2002, A note on soil erosion at Ogbia, Bayelsa State, Nigeria: perspective for a regional appraisal within similar fresh water zones in Nigeria, , *Intr. J. Environ, Sci. & Technol.* 32, 2630-2634, [online at <http://www.enopmcservices.com>]
- ❖ . Egirani, D.E., Otor, J., 2001, Physico-chemical soil status and its effects on land use: A case of Adiko area, Benue State Nigeria, , *Intr. J. Environ, Sci. & Technol* 30, 2535-2539, [online at <http://www.enopmcservices.com>]
- ❖ Egirani, D.E.Nomji J.K. 20002, Preliminary investigation of the hydro-geochemical characteristics of ground water in parts of the Makurdi formation, Nigeria, *Intr. J. Environ, Sci. & Technol* 32, 2640-2649, [online at <http://www.enopmcservices.com>]
- ❖ Egirani, D.E. & Adaikpoh. E. 2004, Preliminary investigations on the beneficiation of the Wadatta limestone, Benue State, Nigeria, *Intr. J. Environ, Sci. & Technol* 34, 2850-2855, [online at <http://www.enopmcservices.com>]
- ❖ Egirani,D.E., Ohaji, C.O 2002, Problems of water resources development in Benue State, Nigeria, , *Intr. J. Environ, Sci. & Technol* 32, 2600-2612, [online at <http://www.enopmcservices.com>]

- ❖ Egirani, D.E., 2002, Aspects of the geology of the district around Ajebo, south west of Ibadan, Nigeria, *Intr. J. Environ, Sci. & Technol* 33, 2735-2741, [online at <http://www.enopmcservices.com>]
- ❖ Egirani D.E. & Agburu., 2005, The effects of earthworm on properties of soils of the district around Ugbokolo, Benue State, Nigeria, , *Intr. J. Environ, Sci. & Technol.* 35, 2980-2987 [online at <http://www.enopmcservices.com>]
- ❖ Egirani D.E. & Itodo, J., 2006, Industrial potential of Ankpojo coal of the district around Owukpa, Benue State, Nigeria; , *Intr. J. Environ, Sci. & Technol.* 36, 3002-3007 [online at <http://www.enopmcservices.com>]
- ❖ Egirani D.E., I. O., Agbede, A. Achi & J. Ioron, 2006, Engineering properties of Ugbokolo soil in relation to foundation problems, *Intr. J. Environ, Sci. & Technol.* 36,3045-3053 [online at <http://www.enopmcservices.com>]
- ❖ Egirani, D.E. & Otor. A.J., 2007, Physical, chemical and biological characterization of ground water in some parts of metro Lagos, Nigeria, *Intr. J. Environ, Sci. & Technol.* 37, 3095-3103 [online at <http://www.enopmcservices.com>]
- ❖ Egirani D.E & Agbede I.O. 2013, Relevance and impact of professional counseling on flood and post-flood management programs in the Niger Delta Region of Nigeria: Structured approach for similar regional deltaic and coastal terrains, *International Journal of Recent Scientific Research*, 4 (4) 329 – 334 [online at <http://www.recentscientific.com>]
- ❖ Egirani D.E Baker A.R. Andrews J.E. 2013, Arsenite removal from aqueous solution by mixed mineral systems I. Reactivity and removal kinetics, *International Journal of Recent Scientific Research*, 4, (4) 357 – 363 [online at <http://www.recentscientific.com>]
- ❖ Egirani D.E. Baker, A.R. Andrews, J.E. 2013, Arsenite removal from aqueous solution by mixed mineral systems II. The role of solution composition and ageing, *International Journal of Recent Scientific Research*, 4, (4) 439 – 443 [online at <http://www.recentscientific.com>]
- ❖ Egirani D.E. Baker A.R. Andrews J.E. 2013, Characterization of sorption and quantitative analysis of hydroxyl complexes of Cu and Zn in aqueous solution: the interactive effects of mine wastewater-mixed mineral systems, *International Journal of Recent Scientific Research*, 4, (4) 469-475. [online at <http://www.recentscientific.com>]
- ❖ Egirani D.E. Baker A.R. Andrews J.E. 2013, Mercury removal from aqueous solution by mixed mineral systems I. Reactivity and removal kinetics, *IOSR-JESTFT*, 4(2), 73-81 [online at www.Iosrjournals.Org]

- ❖ Egirani D.E. Baker A.R. Andrews J.E., 2013, Mercury removal from aqueous solution by mixed mineral systems II. The role of solution composition and ageing. IOSR-JESTFT, 4, (2) 49-55 [online at www.iosrjournals.org]
- ❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Mercury Removal from Aqueous Solution using Mixed Mineral Systems Injected with Iron Sulfide under Sulfidic- Anoxic Conditions 1: Reactivity and Removal Kinetics, Journal of Chemical, Biological and Physical Sciences,(4)(2), 991-1005 [[Available online atwww.jcbsc.org](http://www.jcbsc.org)]
- ❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Mercury Removal from Aqueous Solution using Mixed Mineral Systems Injected with Iron Sulfide under Sulfidic- Anoxic Condition II. The Role of Solution Composition and Ageing, Journal of Chemical, Biological and Physical Sciences,(4)(2), 1006-1017 [[Available online atwww.jcbsc.org](http://www.jcbsc.org)]
- ❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Arsenite Removal from Aqueous Solution using Mixed Mineral Systems Injected with Zinc Sulfide under Sulfidic- Anoxic Condition 1: Reactivity and Removal Kinetics, Journal of Environmental Science, Computer Science and Engineering & Technology, (3)(2), 893-910 [[Available online at www.jecet.org](http://www.jecet.org)]
- ❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Arsenic Removal from Aqueous Solution using Mixed Mineral Systems Injected with Sphalerite under Sulfidic- Anoxic Conditions II. The Role of Solution Composition and Ageing, Journal of Environmental Science, Computer Science and Engineering & Technology, (3)(2), 881-892 [[Available online at www.jecet.org](http://www.jecet.org)]
- ❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Arsenite Removal from Aqueous Solution using Mixed Mineral Systems Injected with Iron Sulfide under Sulfidic- Anoxic conditions 1: Reactivity and Removal Kinetics, IOSR Journal Of Environmental Science, Toxicology And Food Technology (IOSR-JESTFT), (8)(2), 150-163, [www.iosrjournals.org]
- ❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Arsenite Removal from Aqueous Solution using Mixed Mineral Systems Injected with Iron Sulfide under Sulfidic-Anoxic condition II. The role of solution composition and ageing, IOSR Journal Of Environmental Science, Toxicology And Food Technology (IOSR-JESTFT), (8)(2), 164-171, [www.iosrjournals.org]
- ❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Mercury Removal from Aqueous Solution Using Mixed Mineral Systems Injected with Zinc Sulfide in Sulfidic- Anoxic Conditions II. The role of solution composition and Ageing, Research Inveny: International Journal Of Engineering And Science, (4)4), 10-19, [www.researchinveny.com]
- ❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Mercury Removal from Aqueous Solution Using Mixed Mineral Systems Injected with Zinc Sulfide Under Sulfidic- Anoxic Conditions 1:

Reactivity and Removal Kinetics, Research Inventy: International Journal Of Engineering And Science, (4)4), 27-38, [www.researchinventy.com]

❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Copper removal from aqueous solution using mixed mineral systems injected with zinc sulfide in sulfidic- anoxic conditions I: Reactivity and removal kinetics, The Journal of Energy and Environmental Science, *Photon*, 128, 467-478, [<https://sites.google.com/site/photonfoundationorganization/home/the-journal-of-energy-and-environmental-science>]

❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Copper removal from aqueous solution using mixed mineral systems injected with zinc sulfide in sulfidic- anoxic conditions II. The role of solution composition and ageing, The Journal of Energy and Environmental Science, *Photon*, 128, 457-466, [<https://sites.google.com/site/photonfoundationorganization/home/the-journal-of-energy-and-environmental-science>]

Articles in Press, Accepted for Publication

❖ Egirani, D.E. Latif, M.T. Poyi N.R. , 2014, Water Quality Assessment in Parts of the Niger Delta Region of Nigeria, *Journal of Water Resource and Protection*, doi:10.4236/jwarp, In Press

❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Copper and zinc removal from Aqueous Solution using Mixed Mineral Systems Injected with Iron Sulfide under Sulfidic- Anoxic conditions 1: Reactivity and Removal Kinetics, *International Journal of Environmental Engineering Science and Technology Research*, (2)(4), 1 – 15

❖ Egirani, D.E. Andrews, J.E. Baker, A.R., 2014, Copper and zinc removal from Aqueous Solution using Mixed Mineral Systems Injected with Iron Sulfide under Sulfidic- Anoxic conditions II. The role of solution composition and ageing, *International Journal of Environmental Engineering Science and Technology Research*, (2)(4), 1 - 14

❖ Egirani, D.E. Latif, M.T. Poyi N.R. , 2014, Water Quality Assessment in Parts of the Niger Delta Region of Nigeria Part II, *International Journal of Current Research and Academic Review*, (2)(5), In Press

Published e-Books

❖ Egirani, D.E., (2006), *Essentials of Technical and Applied Geology*, [online at <http://www.enopmcservices.com>], e-text resources enopmc 978 34548- 1- 1;

❖ Egirani, D.E., (2007), *Introduction to Earth Sciences*, [online at <http://www.enopmcservices.com>], e-text resources enopmc 978 34548 -2-x;

❖ Egirani, D.E., (2007), *Object Questions and Answers on Essentials of Technical and Applied Geology*, [online at <http://www.enopmcservices.com>], e-text resources enopmc 978 34548 -4-6;

- ❖ Usman, S.S & Egirani, D.E., (2007), Natural Resources- Daniellia Oliveri, [online at <http://www.enopmcservices.com>], e-text resources enopmc 978 34548 -3-8;
- ❖ Allan, J.S & Egirani., D.E, (2008), The Agusan del Sur Environment Code, [online at <http://www.enopmcservices.com>] , e-text resources enopmc 978 34548-5-4;
- ❖ Allan, J.S & Egirani, D.E., (2008), The Agusan del Sur Mineral Resources Development and Management Plan, [online at <http://www.enopmcservices.com>], e-text resources enopmc 978 34548-6-2;
- ❖ Allan, J.S & Egirani, D.E., (2008), Natural Resource Investment in Higaonon Ancestral Domain, [online at <http://www.enopmcservices.com>], e-text resources enopmc 978 -34548-9-7;
- ❖ Sabulao, E & Egirani, D.E, (2009), The Eastern Samar Mineral Resources Development and Management Plan, [online at <http://www.enopmcservices.com>], e-text resources enopmc 978 34548-7-0;
- ❖ Sabulao, E & Egirani., D.E, (2009), The Eastern Samar Environment Code, [online at <http://www.enopmcservices.com>], e-text resources enopmc 978 34548-8-9.

Recent Conference Presentations

- ❖ Egirani, D.E. 2012, Morphological characterization of clay mineral particles interacted with Cu-Zn: evidence from scanning electron microscopy (SEM) and energy dispersive spectroscopy (EDS), European Microscopy Congress, Manchester, UK, 16-21st September.
- ❖ Egirani, D.E., Andrews J.E., and Jickells T., 2012, Characterization of sorption and quantitative analysis of hydroxyl complexes of Cu and Zn in aqueous solution: the interactive effects of mine wastewater-mixed mineral systems, Arlington, Virginia, USA, 25th-29th August, 2013
- ❖ Egirani, D.E, Santiago, A. Sasil, D. Monteros, F. Development and Management of Integrated Mineral Resource Policy Using a Three-Tier Interface Approach: The Mindanao and Eastern Samar Experience, the Philippines, the Ninth International Mining Geology Conference held in Adelaide, South Australia, from 18-20 August 2014

Honors/Distinctions:

- ❖ Thomas Edison Award-2014 in Energy and Environmental Science for Inspiration and Knowledge Distribution among young research scholars.
- ❖ Testimonial on geo-environmental management, USAID the Philippines;
- ❖ Testimonial on natural resource management and planning, PGADS, the Philippines;
- ❖ Testimonial on general professional achievements, Editor-in-Chief, Marquis Who's Who, U.S.A
- ❖ Testimonial on contribution to the journal of colloid and interface science, Journal Manager, JCIS, Elsevier, U.S.A

Membership of Professional Organizations:

- ❖ Member, International Medical Geology Association.

Xviii. Extra-Curricular Activities:

- ❖ Design of websites
- ❖ Community conflict resolution

Names and Addresses of three Referees:

I. Professor Tim Jickells

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II. Professor O.E. Owaba-Charles,

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III. Dr. O. Ofrey - Kulo,

Faculty of Science, Niger Delta University,

Wilberforce Island, Bayelsa State, Nigeria

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