CURRICULUM VITAE

**SAMUEL INNOCENT KOFI AMPADU**

1. **BIODATA**

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| Born | 30th November 1956 |
| Address | College of Engineering, Civil Engineering Department |
| E-mail address | sikampadu@yahoo.co.uk |
| Home Address | 61A Old Ahinsan, Kumasi |
| Mobile No | 0201865506 |

1. **ACADEMIC DEGREES & INSTITUTIONS**
2. *Academic Degrees/Certificates earned with dates*:

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| --- | --- |
| Ph.D., (Geotechnical Engineering), University of Tokyo, Japan | March, 1991 |
| M.Sc., (Civil Engineering), University of Tokyo, Japan | March, 1988 |
| B.Sc., (Civil Engineering), KNUST, Ghana | June, 1981 |
| A-Level Certificate | June 1977 |
| O-Level Certificate | June 1975 |

**(b)** *Institutions attended with dates*

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| University of Tokyo, Institute of Industrial Science, Tokyo, JAPAN | April, 1986 - March, 1991 |
| University of Science and Technology, Kumasi, GHANA | September, 1977 - June, 1981 |
| St. Peters Secondary School, Nkwatia Kwahu, GHANA | Sept. 1970- June 1971 Sept 1975- June 1977 |
| Pope John Secondary School, Koforidua, GHANA | Sept 1971- June 1975 |

**3 Professional Experience**

*(a) Membership of Professional Bodies:*

Fellow, Ghana Institution of Engineers (Reg. No. 01435, registered in 1986)

Member, Ghana Geotechnical Society

Member, Ghana Society of International Geosynthetics Society

1. *Short Training Courses*

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| --- | --- |
| 12 Sept 2018:  | Participant, Training Workshop on Output and Performance-Based Road Contract (OPRC) Workshop, Golden Tulip Hotel, Kumasi, UWP Consulting ghana@uwp.co.za  |
| 8-10th March, 2016 | Participant, Study Course on Innovation and Transfer of Technology, Tokyo, Japan  |
| 1993-1994:  | Research Fellow, Science and Technology Agency (STA), Research Institute of Industrial Safety, Ministry of Labour, Tokyo Japan |
| Mar, 6 - 26, 1993 | Course Participant, Course for Engineers and Managers of Labour-based Road Engineering for Developing Countries, International Institute of Infrastructure, Hydraulic and Environmental Engineering (IHE), Delft, Netherlands |
| Apr. 1991-Mar.1992:  | Post-Doctoral Intern, Civil Engineering Division, Penta Ocean Construction Co. Tokyo, Japan |

**4. UNIVERSITY TEACHING**

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| --- | --- |
| ***2017-Present: Professor*** |  |
| *First Semester* |  | *Second Semester* |  |
| CEG 651 Soil Dynamics and Earthquake Engineering (MSc. Geotechnical Engineering) | 3 | CEG 552 Advanced Soil Mechanics-(MSc. Geotechnical Engineering) | 3 |
| CE 473 Development Engineering, (BSc. Civil Engineering) | 2 | CEG 556 Ground Improvement (MSc Geotechnical Engineering) | 3 |
| CE 477-Geotechnical Engineering (BSc. Civil and Geological Engineering) | 2 | CE 478-Ground Engineering (BSc. Civil and Geological Engineering) | 3 |

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| ***2005-2017: Assoc. Professor*** |
| *First Semester* |  | *Second Semester* |  |
| CEG 651 Soil Dynamics and Earthquake Engineering (MSc. Geotechnical Engineering) | 3 | CEG 552 Advanced Soil Mechanics-(MSc. Geotechnical Engineering) | 3 |
|  |  | CEG 556 Ground Improvement (MSc Geotechnical Engineering) | 3 |
| CEH 553-Rural Roads Engineering and Technology Choice (MSc. Road and Transportation Eng.) | 3 | CEH 552-Geotechnical Eng. for Road works (MSc. Road and Transportation Eng.) | 3 |
| CE 473 Development Engineering, (BSc. Civil Engineering) | 2 | CE 478-Ground Engineering (BSc. Civil and Geological Engineering) | 3 |
| CE 477-Geotechnical Engineering (BSc. Civil and Geological Eng.) | 3 | CEH 544-Transport and the Environment (MSc. Road and Transportation Eng.) | 3 |
| ***Oct. 1997 –Sept. 2005: Senior Lecturer*** |
| *First Semester* |  | *Second Semester* |  |
| CEH 553-Rural Roads Eng. and Technology Choice (MSc. Road and Transportation Eng.) | 3 | CEH 552-Geotechnical Eng. for Road works (MSc. Road and Transportation Eng.) | 3 |
| CE 473 Development Engineering, (BSc. Civil Eng.) | 3 | CE 478-Ground Engineering (BSc. Civil and Geological Engineering) | 3 |
| CE 477-Geotechnical Engineering (BSc. Civil and Geological Eng.) | 3 | CEH 544-Transport and the Environment (MSc. Road and Transportation Eng.) | 3 |
| CE 359 Soil Mechanics (BSc. Civil and Geological Engineering) | 3 | CE 260 Soil and Rock Mechanics (BSc. Civil and Geological Eng.) | 3 |
|  |  | CE 360 Foundation Engineering (BSc. Civil and Geological Engineering) | 3 |
| ***1985 -1997/1983-1985: Lecturer/Assistant Lecturer*** |
| *First Semester* |  | *Second Semester* |  |
| CE 359 Soil Mechanics (BSc. Civil and Geological Engineering) | 3 | CE 360 Foundation Engineering (BSc. Civil and Geological Engineering) | 3 |
| CE 209 Soil Engineering (Diploma, Civil Eng.) | 3 | CE 260 Soil and Rock Mechanics (BSc. Civil and Geological Engineering) | 3 |
|  |  | CE 110 Soil Mechanics (Diploma, Civil Eng.) | 3 |
| ***1982-1983/1981-1982: Teaching Assistant/ National Service*** |
| Assisting with laboratory work and tutorials in CE 260 and CE 359 Soil Mechanics for BSc. Civil, Geological and Geodetic Engineering students and in CE 110 and CE 209 for Civil Engineering Diploma students |

**4 Recent Publications**

1. Ampadu S., Arthur T., Ackah P., Boadu F. (2021): Construction and monitoring of the short-term strength development of a cement-stabilized lateritic pavement layer under tropical climatic conditions 4th ICTG, May 24 - 27, 2021, ISSMGE-TC 202
2. Arthur T, Ampadu S., Gawu S. (2021), The potential of quartzitic rock for use as coarse aggregates in asphaltic concrete: 4th ICTG, May 24 - 27, 2021, ISSMGE-TC 202
3. Fred Kofi Boadu and Samuel Ampadu, (2019) Assessing Relations Between Electrical and Geotechnical Properties of Sand-Clay Mixtures Using Jonscher Fractal Power Law Model, Journal of Environmental and Engineering Geophysics, Vol 24, Issue 1, pp 75-83
4. Ampadu SIK, Ayeh FFJ and Boadu F (2018), Deriving SPT N-values from DCP Test Results: The case of Foundation Design in a Tropical Environment, Geotechnical and Geological Engineering, August 2018, Volume 36 Issue 4, pp 2517-2531
5. Ampadu SIK, Ackah P, Owusu Nimo F, Boadu F (2017), A laboratory study of horizontal confinement effect on the dynamic cone penetration index of a lateritic soil in the laboratory. Transportation Geotechnics 10, 47-61
6. Ampadu SIK and Fiadjoe, G.Y. (2015), The influence of water content on the dynamic cone penetration index of a lateritic soil stabilized with various percentages of quarry by-product, Transportation Geotechnics 5(2015) 68-85
7. Stephen Agyeman and Samuel I.K. Ampadu, (2015), Exploring the techno-economic feasibility of mine rock waste utilisation in road works: The case of a mining deposit in Ghana, Waste Management and Research 1-9, DOI 10.1177/0734242X15611739
8. Ampadu S.I.K. and Addison F.K. (2015), A comparison between the life cycle cost of gravel and of bituminous surfacing options for feeder roads in Ghana, International Journal of Pavement Engineering, DOI: 10.1080/10298436.2015.1065990
9. Fred Kofi Boadu, Frederick Owusu-Nimo, Francis Achampong and Samuel I. K Ampadu, (2013), Artificial neural network and statistical models for predicting the basic geotechnical properties of soils from electrical measurements, Near Surface Geophysics, 2013, 11, doi: 10.3997/1873-0604.2013011
10. Ampadu, S.I.K. and Ayeh, F.J.F. (2012), The early performance of a full scale otta seal trials on a rural road in Ghana, International Journal of Pavements, ISSN 1676-2797, IJP 2012, Vol. 11 Number 1-2-3- ISSN 1676-2797, pp. 69-82
11. Samuel I.K. Ampadu and Joseph Oddei (2017), A field investigation of confinement effect on dynamic cone penetration index of a lateritic soil, 19th International Conference on Soil Mechanics and Geotechnical Engineering, Seoul 17-22 September, Seoul, Korea 2017
12. Boadu, D.S., Ampadu, S.I.K., Bempong K., Amoah-Bekoe, P., (2017), The Use of a Geo-composite for Pavement Construction on Expansive Subgrade - The Case of the Tema Motorway Roundabout Project, 3rd African Regional Geosynthetic Conference - GeoAfrica 2017, Marraekech, Morocco 8–11 Octobre 2017
13. Ampadu S.I.K., Lawer A and Anochie-Boateng, K. 2015, Forensic analysis of asphaltic pavement failures in Ghana-case histories, Proceedings, 11th Conference on Asphalt Pavements for Southern Africa (CAPSA), 16-19 August, 2015, Sun City, South Africa
14. Ampadu, S.I.K, Ackah P., Owusu-Nimo F., Ayeh, F.J.F. (2015), The Effect of pretreatment on index and compaction properties of a lateritic gravel, Proceedings, 16th African Regional Conference on Soil Mechanics and Geotechnical Engineering, 27-30 April 2015, ISBN 978-9938-12-936-6 Tunisia, Eds. Bouassida, M. Khemakhem M and Haffoudhi, S. E., pp. 553-560
15. Ayeh, F.J.F., Ampadu S.I.K., Owusu-Nimo F., Boadu, F. and Lawer A. K. (2015), A laboratory investigation of the effect of used oil contamination on the direct shear behaviour of a lateritic soil, Proceedings, 16th African Regional Conference on Soil Mechanics and Geotechnical Engineering, 27-30 April 2015, ISBN 978-9938-12-936-6 Tunisia, Eds. Bouassida, M. Khemakhem M and Haffoudhi, S. E. pp. 567-572
16. Ampadu, S.I.K. and Amo-Bediako, J. (2013) The Use of Geotextile for Highway Embankment Construction on Soft Ground-The case of the Oforikrom-Asokwa Bypass Project in Ghana, Proceedings, 2nd African Regional Geosynthetic Conference, Accra Nov 18-20
17. Ampadu, S.I.K, Ayeh, F.J.F, Ashong E.N.K. and Asiedu J.O. (2011), Investigation into a labour-friendly alternative surfacing technique for feeder roads in Ghana, 14th ILO Regional Seminar for Labour-based practitioners, Eds., Salifu M. and Agyekum P., 5th-9th September 2011, Accra, pp. 326-350.

**7. RECENT RECORD OF SERVICE**

|  |  |
| --- | --- |
| Sept 2021 | Chair, Committee to prepare proposal to design a pre-engineering program for non-science SHS graduates |
| Mar-July 2021 | Chair, Committee to prepare the TCC for a UNESCO Category II Centre Status |
| Aug. 2021 | Chair, Committee to prepare policy framework for affiliation |
| Dec 2020-Feb 2021 | Chair, Committee to investigate the rumpus at the TEK Co-operative Credit Union Offices on KNUST campus |
| Jul 2019-Dec 2020 | Chief Technical Advisor of the DFID funded £24million Research in Community Access Programme (ReCAP), <https://www.theglobalfund.org/en/technical-review-panel/> |
| 2016-2019 | Member, Technical Panel of the DFID funded £24million Research in Community Access Programme (ReCAP), <https://www.theglobalfund.org/en/technical-review-panel/> |
| 2013-2019 | Chair, Technical Committee on Laterites and lateritic soils- TC 107 Committee of the International Society of Soil Mechanics and Geotechnical Engineering that develops and promotes knowledge in laterites and lateritic soils <http://www.issmge.org/committees/technical-committees/fundamentals/lateritic-soils->  |
| 2010-2016 | Member, Ministerial Advisory Board, Ministry of Roads and Highways Ghana |
| 2012-2013 | President, Ghana Institution of Engineers, 43rd President of Ghana Institution of Engineers. That promotes practice of Engineering in Ghana  |
| 2015-2016 | Member, Engineering Council, Foundation Member of Board of the Council that regulates engineering training and practice in Ghana |
| 2007-2019 | President, Ghana Geotechnical Society of the International Society of Soil Mechanics and Geotechnical Engineering  |
| 2013-2019 | President, Ghana Chapter of the International Geosynthetics Society |
| Aug. 2016 | Chairman, 5th African Young Geotechnical Engineers Conference, August 2-5, KNUST Kumasi |
| Aug. 2020-Jul 2022 | KNUST Representative on Governing Council, All Nations University College, Koforidua, Ghana |
| July-Sept. 2019 | Chairman, Committee to Audit Five Affiliate Technical Universities and Private University Colleges and Chairman sub-committee to draft auditing instrument.  |
| Aug. 2018-Jul 2020 | KNUST Representative on Governing Council, Mountcrest University College, Accra, Ghana |
| April-May 2017 | Chairman -African Quality Rating Mechanism, Committee set up by VC to prepare KNUST for the rating under the AQRM of AU-  |
| Feb –Mar. 2017 | Chairman-Self Evaluation Committee: Committee set up by VC to self-evaluate KNUST for accreditation by NAB  |
| Aug 2016-Jul 2018 | KNUST Representative on Academic Board, KAAF University College, Accra, Ghana |
| 2010–2016 | Provost, College of Engineering 2nd Provost of College of Engineering serving 2 terms of 3 years providing leadership for the College  |
| 2008- 2010 | Head, Civil Engineering Department,  |
| 2017-2020 | Overseas Co-Investigator: Research Grant from the Global Challenge Research Fund (GCRF) of the Engineering and Physical Sciences Research Council (EPSRC) for research into Sustainability and Resilience of Transportation Infrastructure in African Countries: Partners-Univ. of Durham, KNUST, Univ of Pretoria. Total value of £1,368,390  |