

## Curriculum Vitae

Name: Tiberindwa John Vianney  
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Date of Birth: 15-10-1959  
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### Academic History and qualifications:

Oct. 1997---Dec. 2000 University of Vienna, Austria (Doctor of Natural Sciences)  
Sept 1992---July 1993 ITC, Netherlands (Post Graduate Diploma in Geological Survey)  
Oct. 1986---Dec. 1988 Univ. of Nairobi, Kenya (M.Sc. Geology (mineral exploration))  
Oct. 1983--June 1984 Makerere University, Kampala (Post Graduate Diploma in Education, specialised in teaching Chemistry and Physics)  
July 1979--March 1982 Makerere University, Kampala (B.Sc. (Hons) Geology and Chemistry)  
March 1977--Nov. 1978 Ntare School, Mbarara (East African Advanced Certificate of Education (EAACE))  
Jan. 1973--Nov. 1976 St Paul's Seminary, Rushoroza, Kabale (East African Certificate of Education (EACE))  
Jan. 1966--Nov. 1972 Karama Primary school, Nyarushanje, Rukungiri district (Uganda Primary Leaving Certificate)

### Professional and Working experience:

**March 1982-Oct. 1986; March 1989-Sept. 1992:** Secondary School teacher (Chemistry, Maths, Physics), Kololo Senior Secondary School, .

**March 1984-Oct. 1986; Febr. 1989-Febr. 1991:** Teaching Assistant, Geology Dept., Makerere Univ., Kampala.

**Febr. 1991 to March 2002: Lecturer; April 2002 to present:** Senior lecturer, Geology Dept., Makerere University, Kampala.

(Conducting lectures in "Igneous and Metamorphic Petrology; Ore microscopy and economic geology plus gemstone identification to undergraduate students; then Applied Petrology and Mineralogy and Advanced Geochemistry to the M.Sc.students). I also conduct lectures in "Introduction to economic Indices of Management of Geological Resources" to our 2<sup>nd</sup> year students.

**Febr. 1997 to Oct. 1997and Apr. to mid June 2001:** Acting Head of Geology Dept.,M.U.  
Member, Faculty of Science Higher Degrees and Research Committee.

**Academic year 2002/3 to present:** been conducting Engineering Geology labs to Civil. EngineeringII students.

**July-Aug 2002.** Served as Teaching Practice Supervisor, School of Education, Makerere University.

**2003 to present.** Developing lecture reference materials in the course "Basic climatology" for the Distance Learning Programme of Makerere University Institute of Adult and Continuing Education.

**October 2002 to September 2005:** Successfully supervised an M.Sc. research by Mbonimpa Alex on: "The Genesis and Characteristics of the Gold Mineralisation of the Area between River Malaba and River Solo, Busia District".

**January 2005 to-end December2008:** Elected Deputy Dean (Academic Affairs), Faculty of Science, Makerere University. The duties involved handling all undergraduate academic records of the Faculty students, preparing student records for graduation and taking part in all faculty committees and planning activities. I Always acted as dean whenever the substantive dean was away in workshops and conferences.

**December 1<sup>st</sup> 2009 to present:** Elected to chair, Dept of Geology and Petroleum studies, School of Physical Sciences, College of Natural Sciences, Makerere University.

## Conferences and Workshops attended:

- (1) **2nd-6th October 1995:** Seminar and workshop on “environmentally sound management and exploitation of mineral resources, and geological applications of remote sensing”, Entebbe, Uganda.
- (2) **15th -22nd March 1996:** Conference on the application of remotely sensed data and geographic information systems (GIS) in environmental and natural resources assessment in Africa. Harare, Zimbabwe.
- (3) **17<sup>th</sup> July-16<sup>th</sup> Aug., 1999:** University of Vienna Summer School-Legal and Institutional framework in the EU; Monetary policy issues in Europe, and Protection of human rights. (Obtained a certificate)
- (4) **3rd-7th July 2000:** The 18th colloquium of African Geology, Graz, Austria  
(Presented paper: “The Petrology, Geochemistry and Petrogenesis of the Tororo carbonatite complex, eastern Uganda”).
- (5) **April 2001:** The 12th International Conference of the Geological Society of Africa on Geo-environmental catastrophes in Africa; Yaounde, Cameroon (Presented a paper entitled: “The Tororo carbonatite complex of eastern Uganda: a carbonate rock resource for cement manufacture”).
- (6) **10th-12th September 2001:** The regional workshop of the Geological society of Uganda (GSU) and the Geological society of Africa (GSAf) on Basement geology, Groundwater, Mineral Resources and mining-related environmental problems in eastern Africa; Kampala Uganda. Presented a paper entitled: “Towards a petrogenetic model for the genesis of the carbonatite complexes of eastern Uganda: inferences from geochemical and isotopic characteristics of the Tororo Carbonatite Complex”. I also chaired the technical committee of the workshop.
- (7) **7th-9th September 2001:** Workshop on Agrogeology conducted by Prof. Peter Van Straaten of Guelph University, Canada; Kampala, Uganda.
- (8) **March 18th-19th 2002:** attended workshop on “Project proposal writing for policy research” organized by the International Food Policy Research Institute (IFRI), Kampala, Uganda.
- (9) **Sept. 23<sup>rd</sup>-Oct. 11<sup>th</sup> 2002:** Attended an IAEA- sponsored course on “Basic Regional Training in Isotope Hydrology”; Kampala, Uganda. Obtained a certificate.
- (10) **14<sup>th</sup> April 2003:** Attended workshop on “Geothermal Energy Resources of Uganda” organised by NAPE (National Association of Professional Environmentalists). Gave a Keynote address entitled: “ The Viability of Geothermal energy Resources of Uganda and the Environmental concerns associated with their Development”
- (11) **Sept 29<sup>th</sup>-Oct. 10<sup>th</sup> 2003:** Attended an ITC-sponsored Refresher course on “Modern Aspects of GIS & Remote Sensing for Professionals in the Earth Sciences”; University of Witwatersrand, School of Geosciences, Johannesburg, South Africa.
- (12) **2nd to 4<sup>th</sup> March 2005:** Attended the 2<sup>nd</sup> conference on “ The petroleum Potential and Investment Opportunities in East Africa”, Entebbe, Uganda. I was a member of the year-long Local Organising Committee (LOC) activities and the incharge of the exhibition, poster session and conference materials.
- (13) **29<sup>th</sup> January to 1<sup>st</sup> February 2006:** Attended a workshop on “The Specialised Committee for Science Education” organised by The Inter-University Council of East Africa at The Kenya School of Monetary studies, Nairobi, Kenya.. Presented a paper on: “The Importance of Harmonisation of Science Curricular and credit Transfer in East African Universities”
- (14) **29<sup>th</sup> to 30<sup>th</sup> November 2006:** took part in a workshop on Oil and Gas Policy Formulation of The Ministry of Energy and Mineral Resources at Speke Resort, Munyonyo, Kampala.
- (15) **29<sup>th</sup> April to 4<sup>th</sup> May 2007:** attended the CODI meeting of the United Nations Economic Commission for Africa as part of the Uganda delegation; Addis-Ababa, Ethiopia.
- (16) **21<sup>st</sup> 25<sup>th</sup> July 2007:** attended a workshop on: “The Evolution of The East African Rift System and its Mineral Resources” organised by The Geological Society of Uganda (GSU). I led the field trip to the western branch of the East

African Rift System from the 26<sup>th</sup> to the 29<sup>th</sup> July 2007.

(17) **June 26<sup>th</sup> to 29<sup>th</sup> July 2008**: Attended a workshop on the review of the Riftlink Project in Neustadt, Germany.

(18) **16<sup>th</sup> to 17<sup>th</sup> November 2007**: Attended The African Ministers Roundtable on Climate Change, Nile Resort, Jinja, Uganda. This was in preparation for the Commonwealth Heads of Government Meeting (CHOGM) in Kampala, Uganda.

(19) **2009**. Was a member of the Technical committee preparing the starting and programmes of the The Uganda Institute of Petroleum.

(20) **8<sup>th</sup> November 2009 to 6<sup>th</sup> December 2009**: attended course and workshop on Karst Hydrogeology and Ecosystems at The Karst Institute, Guilin, China. I obtained a certificate of attendance.

21 National workshop on Isotope hydrology (**December 7<sup>th</sup> to 11<sup>th</sup> 2010**).

22 Visit to university of Mainz as guest of the Geocycles research project headed by Prof Steve Foley, Head, Institute of Geosciences, University of Mainz, Germany (**26<sup>th</sup> Jan. 2011 to 26<sup>th</sup> Febr. 2011**). Visit involved analysis of trace elements in selected olivine grains from alkaline rocks of the western rift

### **Membership of Professional bodies**

Member of the Geological Society of Africa (G. S.Af.)

Councillor representing the East African region on the council of the Geol. Soc. Of Africa (GSAf) from April 2001 to June 2004.

Member Geological Society of Uganda (G.S.U.). Formerly member, editorial committee of the G.S.U. newsletter.

### **Other Responsibilities**

- Member, Faculty of Science Higher degrees and Research committee.
- Currently a member of the Makerere University task force preparing the formation of a college of Petroleum Science and Engineering

### **Publications and Theses titles:**

Tiberindwa, J.V., 1990. The stream sediment geochemistry of the Edzawa River, Kakamega district, western Kenya. Unpubl. M.Sc. thesis, Univ. Nairobi.

Tiberindwa, J.V., 2000. The Petrology, Geochemistry and Petrogenesis of the Tororo carbonatite Complex, eastern Uganda.. Unpubl Ph.D. Thesis, Univ. Vienna.

Tiberindwa, J.V., 1995. Stream sediment geochemistry as a mineral exploration tool: A case study from Kakamega district, western Kenya. Berliner Geowiss Abh. **A175, 109-118**

Tiberindwa, J. V.; Richter, W. and Koller, F., (2000). The petrology, geochemistry and petrogenesis of the Tororo carbonatite complex, eastern Uganda. Special abstract issue, Journ Afr. Earth Sci, Vol 30, No 4A, pp 85.

Tiberindwa, J.V. 2001 The Tororo carbonatite complex of eastern Uganda: a carbonate rock resource for cement manufacture. Special abstracts volume, Journ. of The Geosci. Soc. of Cameroon, Vol. 1, No 1A; pp 130.

Barry, S.; Chenery, S. R. N.; Cook, J.M.; Styles, M.T.; **Tiberindwa, J.V.**; Hampton, C.; Rutakingirwa, M.; Serunjogi, L.; Tomkins, A. and Brown, C.J., 1998. Geochemical and environmental factors controlling exposure to cerium and magnesium in Uganda. Journ. Expl. Geochem. 65: 1-15.

Barry, S; Rawlins, B. G.; Cordeiro, M. J. A. R.; Hutchins, M.G.; **Tiberindwa, J.V.**; Sserunjogi, L. and Tomkins, A.M. 2000. The bioaccessibility of essential and potential toxic trace elements in tropical soils from Mukono District, Uganda.

Journ. Geol. Soc., Lond, Vol. 157, 2000, pp. 1-7.

Tiberindwa, J.V. 2001. Towards a petrogenetic model for eastern Uganda carbonatite complexes: inferences from geochemical and isotopic characteristics of the Tororo complex. Special abstract Volume, G.S.U. Newsletter.

Schenk, V., Schumann, A., Jons, N., Loose, D., **Tiberindwa, J.V.**, Wegner, H, and Wittig, N.(2002). Petrological evidence for crustal thickening, ultrahigh temperatures and isobaric cooling in Archean granulite-facies gneisses from West Nile(Uganda). Abstract Vol, 19th Colloq of African Geology; El-Jadida, Morocco, 19-22 March 2002; pg 165.

**Tiberindwa, J.V. 2003**: The viability of the geothermal energy resources of Uganda and the environmental concerns associated with their development. Keynote paper presented in workshop on “Geothermal Energy for Uganda”, organised by The National Assoc. of Professional Environmentalists (NAPE), Kampala, Uganda, 14th April 2003.

Loose, D.; Schenk, V.; Schumann, A. and **Tiberindwa, J. V. 2004**. Pan-African UHT-metamorphism at the eastern border of the Congo Craton, Labwor Hills, Uganda. Abstract Volume, Colloq. African Geology, New Orleans, France, June 2004.

Brown CJ, Chenery SR, Smith B, Mason C, Tomkins A, Roberts GJ, Sserunjogi L, and **Tiberindwa JV, 2004**. Environmental influences on the trace element content of teeth- implications for disease and nutritional status. Arch. Oral Biol. 2004 Sept; 49 (9): 705-17.

Link, K., Rosenthal, A., Pearson, D.G., Barifaijo, E., **Tiberindwa, J.**, Nowell, G. and Foley, S.F., 2007. Geochemical constraints on the origin of silica-poor alkaline volcanic rocks in the Toro-Ankole and Bufumbira region of Western Uganda. In Abstracts volume of the conference on active volcanism and continental rifting with special focus on the Virunga North Kivu, DRC, November 19-21, 2007 in Luxembourg.

Link, C.; Barifaijo, E.; **Tiberindwa, J.V.**; Rosenthal, A.; Pearson, P. G.; Foley, S. F. 2008a. Volcanics and their mantle xenoliths from western Uganda: a window to recent activity in the sub-rift mantle. RIFTLINK workshop, Neustadt, Germany.

Link, C., Barifaijo, E., **Tiberindwa, J.**, Foley, S. F. 2008b. Pyroxenite xenoliths from the silica-poor alkaline volcanic rocks in the Toro-Ankole region of western Uganda. A paper presented to The EGU, Vienna.

Mbonimpa, A.B.; Barifaijo, E, and **Tiberindwa, J.V. 2007**. The potential for gold mineralisation in the greenstone belt of Busia district, southeastern Uganda. African Journal of Science and Technology (AJST), Science and Engineering Series Vol. 8, No 1, pp. 116-134.

Klemens Link, Daniel Koehn, Matthias G. Barth, John V. **Tiberindwa**, Erasmus Barifaijo, Kevin Aanyu and Stephen F. **Foley 2010**. Continuous Cratonic crust between the Congo and Tanzania blocks in western Uganda. Int. J. Earth Sci. (Geol. Rundsch) (2010) 99: 1559-1573.

**Foley, S.F., Link, K., Tiberindwa, J.V. and Barifaijo, E. (2011)**. Patterns and Origin of igneous activity around the Tanzanian Craton. Journal of African Earth Sciences (in review).

### **Research Experience and Consultancies:**

**1995-1998**: Took part in the research entitled “ Endo-myocardial Fibrosis (E.M.F.) in Uganda together with a group from The British Geological Survey (B.G.S.) and the Medical School, Makerere University. This involved the sampling and

analysis of soils, waters, rocks and foods from central Uganda and parts of Western Uganda (See publications of Barry, S. et al. Above).

**July 2001 to 2006:** Took part in a research entitled “The Formation and Petrological Evolution of the Basement Complex of Uganda” with Prof. Volker Schenk and a team from the University of Kiel, Germany.

**June 2003:** Took part in a project with Prof. Maarten deWit of University of Cape town, South Africa to study the tectonics and evolutionary history of the Rwenzori Mountains as well as the dating of the Archean rocks of Uganda.

**2006 to present:** been taking part in The Rift Link project on the Evolution and Tectonic history of The Rwenzori Mtn. This is a comprehensive collaboration between the Geology Dept, Makerere University and some 12 Universities from Germany. This project has been extended for another three years beginning 1<sup>st</sup> April 2009.

**Since 2008 and continuing:** Taking part in the consultancy assignment for the establishment of an environmental and social management framework for the Department of Geological Survey and Mines, Ministry of Energy and Mineral Resources. My position is that of Mining/Environmental Institutions Expert. I am also taking part in another consultancy for the same department aimed at setting up an intranet system for them. My position in that consultancy is that of a training and GIS expert.

**October 2008:** Consulted for JOMAYI PROPERTY CONSULTANTS on the suitability of their rock resources for quarrying and economic use in their Mukono-Seeta Estate.

**26<sup>th</sup> Jan. 2011 to 26<sup>th</sup> Febr. 2011:** Spent 1 month at The Institute of Earth Sciences, University of Mainz, Germany participating in the analysis of trace elements in olivines in alkaline rocks of the Western Rift, Uganda.

Over the years, I have acquired expertise in rock and mineral identification both in the field and in the lab using XRF, Electron Microprobe, Laser Ablation, optical microscope and other analytical instruments. Indeed my teaching assignments at Makerere University include Igneous petrology and Metamorphic petrology (mainly), Regional Geology, Economic Geology, Ore Microscopy, Gemstone Identification and mineral exploration. I am an ardent collector of rocks from all the regions of Uganda.