

# RESUME



**Dr. Bernard Kipsang Rop, Ph.D. (MGSK, Reg. Geol.)**

## **A PERSONAL INFORMATION**

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P.O. Box 62000-00200, Nairobi, Kenya.

**Current Academic Position: Senior Lecturer, Mining, Materials and Petroleum Engineering Department, Jomo Kenyatta University of Agriculture and Technology**

**Permanent address:** P.O. Box 7702 - 00200, Nairobi, Kenya.

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## **B UNIVERSITY MANAGEMENT AND WORK EXPERIENCE**

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September 2014 to Date: **Chairman,**

*Mining, Materials and Petroleum Engineering Department,*  
Jomo Kenyatta University of Agriculture and Technology

Email: [mmpe@jkuat.ac.ke](mailto:mmpe@jkuat.ac.ke)

### **Duties**

- Fastracking implementation of MSc and PhD in Petroleum Engineering programmes
- Development of BTech in Petroleum Technology
- Advice on Staff requirements for the programmes under the dept.
- Address the requirements for accreditation of all engineering programmes in the dept.
- Provision of direction, policies, research initiatives and programmes for quality, inclusive and equitable scientific, technical and innovative expertise responsive to the requirements of mining, materials and petroleum engineering for national, regional and global competitiveness.
- Sourcing of part-time teaching staff including adjunct lecturers

- Petroleum Research & Prospectivity in Kenya's Rifts Sedimentary Basins
- In-charge of academic affairs and administrative duties at JKUAT Hqs.

9<sup>th</sup> November – 4<sup>th</sup> December 2014: **UNDP Consultancy on “Economic and Job Creation Potential on Artisanal and Small-Scale Miners for Artisanal and Small-Scale Miners in Taita Taveta County”** and Wrote A Comprehensive Report Submitted to UNDP Hqs in December , 2014)

- ***As a Research UNDP Team Leader/Consultant, we defined the assessment criteria for the study***
- Assessed current contribution of artisanal small-mining to household income within the communities in Taita Taveta County.
- Provided gender specific socio-economic data and analyses, based on gender disaggregated statistics/data, economic opportunities and job creation potential for both men and women and youth within the artisanal and small-scale mining sector in Taita Taveta.
- Carried out a supply chain analysis of gemstones trade in Kenya with a special focus on Taita Taveta County; providing details in terms of prices, quantities, quality and processes used at various links in the value chain.
- Identified challenges faced at various links in the value chain, with particular focus on small-scale mineral producers/miners (upstream), covering the following issues:
  - Inputs and equipment
  - Finance
  - Environmental sustainability
  - Social problems such as conflicts, gender-based violence, etc.
  - Alternative livelihood opportunities available (this is relevant only to small-scale mineral producers/ miners)
  - Laws and regulations (or the lack thereof)
  - Access to information, including geological information
  - Existence and functioning of institutions such as associations and business development agencies
- Highlighted policy, economic, social, and political factors hindering growth in the supply of gemstones and the development of effective value chains that integrate the poor with a gender specific focus of the artisanal and small-scale mining sector in Taita Taveta County
- Defined causes of low royalty returns to the national government
- Recommended gender sensitive approaches (youth and women) on how to mitigate these challenges and enhance the equitable and sustainable artisanal and small scale mining

- Developed and share guidelines implementing the recommendations
- Carried out stakeholder consultation workshop based on which provided recommendations for policy and legislative action that will ensure equitable distribution of artisanal mining operations benefits to men, women and youth.

15th -19th December 2014: **Conducted a UNDP's Consultancy-Training and Validation Workshop for Artisanal and Small-Scale Miners in Taita Taveta County** (One Week's Workshop in Voi Wildlife Lodge, Voi, Kenya).

- Developed a detailed course content based on the modules
- *Carried out a five day (5) training workshop for the Artisanal and Small-Scale Miners to build on their engagement in community development, peace building,*
- Wrote a seminar report recording the flow of events, sentiments, ASM challenges and recommendations
- Developed manuals and other materials for the training
- Identified areas of further training and modifications of the module content where applicable
- Collected and collated reactions and views of the participants with a view to better customize the training for Artisanal and Small-Scale Miners
- Collaborated with local training institutions e.g. Taita Taveta University College in enriching the training program

May 2013-September 2015: **Departmental Program Coordinator:**

Department of Mechanical Engineering's Mining and Mineral Processing Engineering programs development (BSc, MSc & PhD).

**Duties:** Ensured the programmes (BSc, MSc and PhD) were successfully developed and implemented accordingly apart from teaching and researching in the dept.

September 2008-December 2012: **Taita Taveta University College** (A Constituent College of JKUAT), Voi,

**Duties:** *Lecturer* in the *Department of Mining and Mineral Processing Engineering.*

- Petroleum Engineering
- Economic Ore Deposits
- Mineral Economics & Industrial Minerals and Gemology
- Environmental Geology
- Geology and Mining Technology
- Geostatistics
- Academic Adviser and Industrial Linkages & Liaison Officer
- Supervision of students in M.Sc. and Ph.D. as well as conducting research and writing papers;

- Development of curriculum for new courses and Internal Examiner for M.Sc. and Ph.D. Theses.
- Promotion of mining and mineral processing knowledge generation and dissemination to meet the needs of the university and the community through publications of research-related work programmes.

February 2009-March 2011: ***Commissioner of Mines and Geology*** (Secondment)  
**Ministry of Environment and Mineral Resources**

**Duties**

- Provision of direction, policies, research initiatives and programmes for quality, inclusive and equitable scientific, technical and innovative expertise responsive to the requirements of geology and mines for national, regional and global competitiveness.
- Realization of a calculated blend of demand-pool and supply-push systems that invariably make it globally competitive.
- Enhancement of transparency, professionalism and accountability in provision of quality services for the Mines & Geology department to be a leader and efficient geological, mineral and mining information centre.
- Enforcement of the Mining Act Cap. 306 of the Laws of Kenya:
- Other duties include:
  - i. *Chairman of the Ministerial Audit Committee mandated to assist the Accounting Officer/CEO in enhancing Internal Controls in order to improve efficiency, transparency and accountability*
  - ii. *Develop and implement Customer service Charter*
  - iii. *Hold an Annual Geology and Mines public service day with identified themes*
  - iv. *Establish documentation, library and information centres in strategic locations*
  - v. *Organize workshops and seminars for artisanal mines*
  - vi. *Improve professional relationship with the Policy makers*
  - vii. *Sensitize the public, scientific organizations, professional and related stakeholders on the role of geology and minerals in national development.*

July 2005-September 2008: ***Lecturer*** in the *Department of Civil and Structural Engineering*, Masinde Muliro University of Science and Technology (MMUST)

**Duties:**

- Teaching Diplomas, Undergraduates and Postgraduates students in *Engineering Geology, Engineering Materials, Building Materials, Hydrogeology, Research Methods, Composite Materials, and Environmental Geology*.
- Supervision of students in M.Sc. and Ph.D. as well as conducting research and writing papers;
- Development of curriculum for new courses and Internal Examiner for M.Sc. and Ph.D. Theses.

- Promotion of knowledge generation and dissemination to meet the needs of the university and the community through publications of research-related work programmes.
- Board Member of Institute of Graduate Studies at DVC - PRE

**Warden** – Duties and Responsibilities (Hall 2):

- Handled welfare and social issues of students
- Managed students administration in hostels
- Provided parental supervision and guidance in both academic and social aspects
- Facilitated academic and counseling services
- Oversaw room allocation and sanitation in the Hall
- Helped develop sense of identity, belonging and community life within the Hall
- Coordinated inter-hostels competitions e.g. sports, debate, drama, etc.
- Handling emergencies in the hostels should the need arise
- Training students on health and safety procedures
- Creating a sense of leadership and responsibility among students
- Closely liaised with the office of the Dean of Students in performing above duties

2003/2004 Academic Year: **University of Nairobi, Department of Geology**

**Part Time Lecturer Taught:**

- ✓ Materials of the Earth,
- ✓ Petroleum Geology,
- ✓ Systemic Mineralogy,
- ✓ Ore Deposits, and
- ✓ Stratigraphy

2007/2008 Academic Year: **University of Nairobi, Department of Geology**

**Part Time Lecturer Taught:**

- ✓ Petroleum Geology,
- ✓ Systematic Mineralogy, and
- ✓ Ore Deposits

2013/2014 Academic Year: **University of Nairobi, Department of Geology**

**Part Time Lecturer Taught MSc Students**

- ✓ *Petroleum Geology* and
- ✓ *Petroleum Geochemistry*

June 2014 to August 2014: Kenyatta University, P.O. Box 43844-00100, Nairobi.

**Senior Lecturer and Programme Coordinator Petroleum Engineering, Department of Energy Engineering.**

**Taught:**

- ✓ Fundamentals of Engineering Geology
- ✓ Fundamentals of Petroleum Engineering
- ✓ Fundamentals of Drilling Practices
- ✓ Fundamentals of Petroleum Geology

## **C PUBLIC/CIVIL SERVICE MANAGEMENT/WORK EXPERIENCE**

2004 – 2005 **Senior Superintending Geologist (JG P) - MINES AND GEOLOGY DEPARTMENT, MINISTRY OF ENVIRONMENT AND NATURAL RESOURCES, NAIROBI.**

### **Duties:**

- Coordination, planning and conducting research and implementation of mineral exploration and geological mapping field programmes in Kenya.
- Financial management, designing and setting of quality program standards.
- Development, planning and designing of mining programmes.
- Participation in Energy sector at the East African Regional Cooperation.
- Participation in East Africa Petroleum Bi-annual Conferences

1996 – 2004 **Assistant Exploration & Production Manager - NATIONAL OIL CORPORATION OF KENYA (NOCK), NAIROBI, KENYA.**

### **Duties:**

- Coordination, planning, budgeting and implementation of technical and management duties of the Department;
- Exploration project designs, evaluation and implementation of Production Sharing Contracts;
- Promotion of research studies related to the evaluation of the hydrocarbon in Kenya and abroad;
- Secretary to the Government of Kenya Inter-ministerial Committee charged with the responsibility of formulating goals and mode of execution of the government's petroleum exploration programs;
- Secretary to the Government of Kenya Production Sharing Contracts Negotiation Committee that successfully licensed 7 Exploration Blocks and obtained annual Block rental fees amounting to US \$200,000;
- Head of the Local Organizing Committee Secretariat for the Inaugural East African Petroleum Conference that was held in Nairobi, Kenya during March, 2003 and was officially opened by the Vice President of the Republic of Kenya. It had 500 participants from international oil companies and government energy institutions from the U.S.A, Europe, Australia and Africa;
- Designed and led in the successful negotiations for a comprehensive Petroleum Geology study of the Anza Basin of Kenya executed as a joint project between the National Oil Corporation of Kenya (NOCK) and the University of Brest, France with the support of the French Government.
- Co-ordinating all the exploration activities of the Corporation
- Involved in exploration project designs, evaluation and implementation
- Promotion and co-ordination of research, scientific publications, innovation, extension, and technology transfer to the industry, business community, and society.
- Coordination of workshops and seminars on oil exploration programmes on technology transfer;

- Mobilisation and soliciting of financial support for research and extension programmes through fundraising activities from donor organisations, industry and business community;
- Maintenance of collaboration and linkages with both local and international oil companies in the areas of research and innovation programmes;
- Structuring indexing and uploading scanned well reports, security , storage and data dissemination;
- Provided technical and commercial support during the negotiation of the Production Sharing Contracts (PSCs) on behalf of the GoK associated with the Oil Company's field work programmes which included:
  - ✓ Interpretation of Seismic Data
  - ✓ Development of Geological Model
  - ✓ Development of Reservoir Model
  - ✓ Development of Conceptual Field Development Plans
  - ✓ Development of Independent Reserves Assessment
  - ✓ Development of Independent Valuation
  - ✓ Development and Negotiation of technical, commercial and economics recovery terms
- Developed independent deterministic and probabilistic reserves assessments for a very significant prospect in this license area in accordance with the PRMS standards.
- Developed a fully integrated geological and reservoir simulation model for the prospects. The work included full assessment and interpretation of a 2D seismic data set shot over the license area, development of a static geological model and a dynamic reservoir model.
- Carried out modelling to determine optimum production configuration for the prospect through consideration of water injection and gas re-injection schemes. Also carried out conceptual field development planning to determine the associated surface production scheme.
- Assessment of Prospects for Exploration Campaigns and Licensing
- Resource Determination, Valuation, Audit and Certification
- Field Development Planning
- Project Cost Estimating using softwares
- Legal and Auditing Services:
  - ✓ Hydrocarbon Agreement Negotiation including Unitisation
  - ✓ Expert Witness Reports
  - ✓ Technical Audits
  - ✓ Financial Audits
- Project Financing:
  - ✓ Reserves Audits
  - ✓ Development Planning Audits
- *Can provide full, independent analysis of oil and gas reserves of any size from seismic assessment and interpretation through geological model development and reservoir simulation, field development planning and economic assessment, and*
- Overall project planning of the timelines supervision of scanning personnel and quality control of scanned data (oil and gas exploration report).

### **Other Relevant Experiences Gained in Oil and Gas Industry:**

- ✓ I have had extensive experience (12 years) of upstream oil and gas operations including exploration, appraisal and development.
- ✓ I have acted as a Project Leader in reserves determinations, reserves certification, field development planning and project auditing and monitoring, mergers and acquisitions and hydrocarbon agreement negotiation including unitisations.
- ✓ I have over 10 years' experience of performing geophysical and geological evaluations, including 3D geological modelling and has particular experience in reserves determinations, development and auditing of field development plans and performance of license evaluation and prospect assessment.
- ✓ I have over 10 years' experience in an oil company (NOCK) background and in performing economic evaluations on international projects; particularly in support of the company's reserves assessment, field development planning, oil agreement negotiation and prospect evaluation work.
- ✓ I have over 10 years' experience in performing petrophysical evaluations of well data from range of reservoir formations including carbonate, sandstone and shale.
- ✓ I have over 10 years' experience in providing geological support during reserves determinations implemented for field development planning and financing purposes.
- ✓ I have over 10 years' experience of performing reserves determinations, field development planning and reservoir modelling for clastic and carbonate reservoirs and also considerable experience in material balance, decline curve analysis and volumetric assessments.

May-Oct.1997 *Assistant Lecturer* - Egerton University's Natural Resources Department, *Faculty of Agriculture*.

- *Taught* 2<sup>nd</sup> Year Students the basic concepts of maximizing and utilizing the natural resources for management optimisation and exploitation.

### **1993 - 1996 Senior Exploration Geologist – NOCK**

#### **Duties:**

- Exploration drilling monitoring activities for all Oil and Gas exploration activities in Kenya, (Onshore and offshore)
- Reservoir description and characterization of Kenya major sedimentary basins
- Advising company (NOCK) on petroleum exploration drilling activities in the country
- Liaising with Operating companies/drilling contractors/service companies during drilling operation
- Preparation of Technical reports on drilled wells and processing geophysical data and interpretation
- Assist in the interpretation of geochemical results of analyses performed both at the National Oil Laboratory and by contracted consultants
- Compiled technical reports, basin report and marketing of exploration blocks
- In-charge of the maintenance of Kenya's core samples and geocuttings
- Assisted in corporate strategy development and implementation



- Ensured the departments' EHS and ISO procedures are adhered to.
- Stratigraphic and Sedimentologic studies involving and including the analysis of the hydrocarbon potential of the Kenya basins.
- Writing and compilation of petroleum exploration technical reports.
- Promotion of research studies related to the evaluation of the hydrocarbon in Kenya and abroad.

1990 - 1993 **Provincial Geologist - MINES AND GEOLOGICAL DEPARTMENT (MENR), WESTERN PROVINCE, KAKAMEGA, KENYA.**

**Duties:**

- Coordination, management, planning, budgeting and implementation of mineral and geological regional mapping projects in Western Province.
- Co-ordination of all Provincial and District Administration matters.
- Supervision of Regional Geological Mapping & Mineral Exploration Projects.
- Attendance of all Provincial & District Development Meetings.
- Participation in Agricultural Society of Kenya Shows in Western Province.
- Provision of technical advice & information on mineral prospecting & identification.
- Supervision of all the personnel in the Mines & Geological Department.
- Geological field mapping, compilation and report writing of mapped areas.

1982 - 1990 **Mineral Exploration Geologist - MINES AND GEOLOGY DEPARTMENT, MINISTRY OF ENVIRONMENT AND NATURAL RESOURCES.**

**Duties:**

- Involved in Kenya/British Samburu-Marsabit Geological Mapping and Mineral Exploration Project of virgin areas of Northern Kenya.
- Wrote and compiled Geological Reports of the mapped areas.
- Co-ordinated and Supervised field mapping personnel.

**D PROFESSIONAL MEMEBRSHIP**

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*Professional Member* of the Geological Society of Kenya (former Vice-Chairman)

*Registered Geologist* – The Geologists Registration Board (GRB) and **former Chairman.**

*Registered Lead Expert* – NEMA's Environmental Impact Assessment/Environmental Auditor.

**E RESEARCH INTERESTS**

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I have been involved in serious research since 1985 as an exploration management geologist in areas related to geological mapping and mineral exploration projects covering the entire country. my main areas of research include:

- Petroleum Engineering, Applied Geology and Geophysics,

- Mineral Economics Mapping and Exploration,
- Application of Geological Interpretation of Remotely Sensed Data on Mineral Exploration and Geological Mapping,
- Hydrocarbons (oil and gas) and Environmental Risk Management Consultant.
- The National Climate Change Response Strategy to strengthen and focus nationwide actions towards climate change adaptation and GHG emission mitigation,
- Environmental Impact Assessment – EIA Lead Expert/Consultant,
- Mining, Materials and Petroleum Engineering Consultant,
- Carrying out reserves assessments and certifications in accordance to the rules and standards set down by the Petroleum Resource Management System (PRMS).
- Organisational coordination, planning, budgeting, implementation and evaluation of technical and environmental energy sector management activities.
- Strategic Business Management and SMEs Management Activities.
- Nandi history and religion; Comparative studies.

#### **Research Consultancies/Appointments:**

- April 2015 – Date: *Appointed Board Member/Director* – Rural Electrification Authority (REA)
- 2014: *UNDP Consultant* on Artisanal and small-scale mining (ASM) in Taita Taveta County (TTC) - “*Economic and Job Creation Potential of Artisanal and Small-Scale Mining, in Taita Taveta County*” Report in November 2014.
- 2009-2012: *Appointed Chairman of The Geologists Registration Board (GRB).*
- 2009-2011: *Appointed Commissioner of Mines and Geology (CMG), Ministry of Environment and Mineral Resources*
- 2004: *NEMA’s Lead Expert: Environmental Impact Assessment and/or Environmental Auditor*
- 2003 – Date: *Geological Oil & Gas Consultant: Geological Mapping, Mineral Exploration and Oil and Gas Prospectivity of Kenya Rift Basins.*
- 1993-1998: *A Task Force Member of the National Environment Action Plan (NEAP)* whose objective was to define and set the National Strategies on Environment and Sustainable Development Policy that formed NEMA through 1999 EMCA act.
- 1993-1998: *Professional Member (Vice Chairman) of the Geological Society of Kenya (MGSK) and an appointed member of the Geologists Registration Board since its inception - 1993 to 1998.*

#### **Detailed University Teaching and Research Tasks:**

*To teach and research as a Petroleum Geologist in the following areas:*

- Economic Ore Deposits
- Petroleum Engineering
- Mining and Mineral Processing Engineering

- Extensive Petroleum Research Prospectivity in Kenya's Rift Sedimentary Basins
- Mineral Economics & Industrial Minerals and Gemology
- Environmental Geology
- Geology and Mining Technology
- Academic Adviser and Industrial Linkages & Liaison Officer
- Supervision of students in M.Sc. and Ph.D. as well as conducting research and writing papers;
- Development of curriculum for new courses and Internal Examiner for M.Sc. and Ph.D. Theses.
- Promotion of petroleum prospecting, mining and mineral processing knowledge generation and dissemination to meet the needs of the university and the community through publications of research-related work programmes.
- Provision of direction, policies, research initiatives and programmes for quality, inclusive and equitable scientific, technical and innovative expertise responsive to the requirements of petroleum geology and mines for national, regional and global competitiveness.

### **Key Qualifications:**

For over 27 years Dr Rop has had a wide exposure and experience in implementing mining and energy programmes (petroleum), managing donor component programs and/or working in an active geological exploration and mapping activities in Kenya apart from:

- Monitoring of drilling operations offshore and onshore activities in Kenya
- Project leader - Conducting geological, geophysical and geochemical study of Anza basin sedimentation and hydrocarbon potential.
- Working with operating companies in drilling operations both onshore and offshore
- Promotion of research studies related to the evaluation of the hydrocarbons in Kenya and abroad;
- Skills in Subsurface Stratigraphical Studies of Cretaceous-Tertiary Basins of Kenya with the objective of giving prognostic evaluation of probable sites for hydrocarbons (oil and gas) potential in the basins;
- Promotion of community-based research natural resources management approaches such as NEMA's Environmental Impact Assessment and Environmental Auditing of community projects;
- Lecturing in Petroleum Engineering, Engineering Geology, Engineering Materials, Building Materials, Hydrogeology, Materials of the Earth. Systematic Mineralogy, Ore Deposits, Scientific Research Methods, Mechanics of Composite Materials, Industrial Minerals, Rocks and Soils, and Environmental Geology;
- Supervision of diploma, undergraduate and postgraduate students;
- Organization of specialized academic/mineral-sector workshops and seminars;
- University's Time Table and Examination Coordinator;

- Faculty Board Member - Institute of Graduate Studies Research and Extension, MMUST;
- Curriculum Development, MSc and PhD Petroleum Engineering - JKUAT;
- Research in Petroleum Prospects under the Rift Basins of Kenya; and
- Conducting research in Engineering Construction Materials, Geological Mapping of Oil and Gas and Mineral Resources Exploration, Development and Utilization in Kenya.

Dr. Rop, who is a prolific author and has recently published **six books** in the last three (3) years entitled: **From Glory to Glory: God's Revelation to man(2015)**, **Petroleum Exploration and Production in Kenya: Opportunities and Challenges (2015)**, **Perceptions of the Effects SACCOs' Performance in Matatu Business: A Case of Taita Taveta County, Voi, Kenya(2015)**, **A Profile Characteristics of Small and Micro Enterprises in Voi, Kenya: Taita Taveta County (2014)**, **Effect of Interest Rates Spread on Performance: Banking Industry in Kenya (2013)**, and **Oil and Gas Prospectivity: Northwestern Kenya (2013)** appreciates that "Petroleum exploration is an arduous job involving interpretation and integration of geoscientific information emanating from indirect sources. The surface geologic information in both onshore and offshore Kenya Rift Basins is gathered mainly from exploratory wells, geophysical surveys and wireline well logs. Meticulous data interpretation and analysis from these sources are required before projections for probability of source-reservoir-cap rocks combinations over an area with favorable entrapment conditions would lead to identification of prospective structures and locales for exploration drilling."

Dr Rop is currently conducting oil and gas researches by leading his students in prospective Kenya's sedimentary basins in order to demarcate drillable structures in the subsurface basins, which depend upon accomplishing extensive geophysical and geochemical data and their logical interpretation with the help of the existing information on drill cores from both the onshore and offshore basins which must be studied and interpreted in order to understand the subsurface geology and structures for source-reservoir-seal petroleum targets characteristics and/or associations.

#### **MASTERS THESES SUPERVISED & EXAMINED**

- 1) MBA (2014) "*Stakeholders' perception on the effect of savings and credit cooperative societies on performance of Matatu businesses in Taita Taveta County in Kenya*" by Lylian Ipaat, TTUC-JKUAT.
  - 2) MSc (2013): Report on field studies in Voi, Kenya: "*Soil Erosion and Flood Risk Management, Integrated soil erosion and flood risk management in Voi, Kenya*"- a short term student project in January 2013. 70p.
  - 3) MBA (2012) "*Effect of interest rates spread on the performance of banking industry in Kenya*" by Langat Leonard, TTUC-JKUAT.
  - 4) MBA (2012) "*Strategic orientation to open innovation practices by small and medium sized enterprises (SMEs) in Kenya*" by Muya Paul Ndirangu, TTUC-JKUAT.
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- 5) MBA (2012) *“The impact of small and micro entrepreneurs on enterprise performance: The case of Voi Municipality”* by Nancy Chebet Changeiywo, TTUC-JKUAT.
- 6) M.Sc. (2008) *“Challenges of Home-Based Care to People Living With HIV and AIDS and Caregivers in Kakamega and Mumias Districts, Kenya”* by Ageng’o Ayub James Otieno, CDMHA-MMUST.
- 7) M.Sc. (2007) *“Development of a Sustainable Low-cost Non-Structural Flood Mitigation Strategy”* CDMHA-MMUST.

## **F EDUCATIONAL BACKGROUND**

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<b>School/College/University</b>	<b>Period</b>	<b>Qualifications</b>
Kericho High School	1973 - 1976	E.A.C.E.
Kakamega High School	1977 – 1978	E.A.A.C.E
University of Poona (India)	1979 - 1982	B. Sc. (Geology)
University of Windsor (Canada)	1987 – 1990	M.Sc. (Petroleum Geology)
University of Pune (India)	1998 – 2003	Ph.D. (Petroleum Geology)

## **G PROJECT RESEARCH/THESES TITLES**

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1. **Title of M. Sc. Thesis:** Stratigraphic and Sedimentologic Study of the Mesozoic-Tertiary strata in Loiyangalani Area, Lake Turkana District, Northwest Kenya.

**Institution:** University of Windsor, Ontario, Canada.

**Area:** Petroleum Geology (Sedimentological Basin Analysis)

**Year:** October, 1990

*The task of this thesis was Stratigraphic and Sedimentologic studies involving and including the analysis of the hydrocarbon potential of the northwest Kenya basins.*

2. **Title of Ph.D. Thesis:** Subsurface Stratigraphical Studies of Cretaceous-Tertiary Basins of Northwest Kenya.

**Institution:** University of Pune, Pune, India.

**Area:** Petroleum Geology (Hydrocarbons’ Engineering Basin Analysis)

**Year:** December, 2003

*The task of this thesis was a research on detailed well log, seismic & gravity data interpretation of the Chalbi, Lake Turkana, Lokichar, North Kerio and Lotikipi Basins with the objective of giving prognostic evaluation of probable sites for hydrocarbons (oil and gas) potential in the study area.*

## **G MEMBERSHIP OF UNIVERSITY SPECIAL COMMITTEES**

- 1) December 2015: Leader of an adhoc university committee in drafting biddings for ACE II Call for Proposals in Oil and Gas to the Higher Ministry of Education, Science and Technology for **Research Institute for Oil and Gas (RIOG)** at JKUAT to World Bank sponsorship. A general guidance' proposals which were expected to address regional development that strive to achieve a balance of programs that address critical developmental needs especially in the areas of oil and gas engineering/geosciences in Eastern and Southern Africa (ESA) region.
- 2) October 2015: Nominated by African Union, the Association of African Universities and other African experts to represent JKUAT and participate in the First General Meeting organized by the **Tuning Africa Project Phase II** – Project No. EAC-2015-0138 – held in Cairo between 12<sup>th</sup> -14<sup>th</sup> October 2015 in the field of **Applied Geology** to develop competence based curricula, build capacity in teaching and learning and quality enhancement, define common and agreed study credits and assessment tools, develop joint agreements between universities and participate in both a continental and international network.
- 3) September 2014: Participated in adhoc university committee in drafting biddings for ACE II Proposals to the Higher Ministry of Education, Science and Technology for Sustainable Technologies and Innovation for Development (ACE-STID) to World Bank sponsorship. A general guidance' proposals which were expected to address regional development that strive to achieve a balance of programs that address critical developmental needs especially in the areas of energy, extractives, manufacturing, and railway engineering.
- 4) April 2014: Participated in adhoc committee that drafted the Technical and Financial Proposal bids to the Ministry of Education, Science and Technology for training of existing teaching university staff at Masters and Doctorate in Engineering and Applied Sciences. JKUAT, MMUST and TTUC in collaboration with Curtin University (Australia) in which African Development Bank approved to sponsor both MSc and PhD Mining and Coal Technogy programmes.
- 5) April 2013: Participated in adhoc collaboration committee that drafted an EOI to the Higher Ministry of Education, Science and Technology for training of existing teaching university staff at Masters and Doctorate in Engineering and Applied Sciences. JKUAT, MMUST and TTUC in collaboration with Curtin University (Australia).

## **H BOOK PUBLICATIONS, REFEREED ARTICLES AND REPORTS**

1. **Bernard Kipsang Rop** and J.K. Mzee Gitau (2016): From Glory to Glory: *God's Revelation to man (2016)*, Verlag/Publisher: Scholar's Press ISBN 978-3-639-86353-6.
2. Bernard Kipkoech Sirma, **Bernard Kipsang Rop** and Seroni Anyona (2015): Petroleum Exploration and Production in Kenya: *Opportunities and Challenges (2015)*, Verlag/Publisher: Scholar's Press ISBN 978-3-639-76686-8.

3. Lylian Ipaat Iluur, **Bernard Kipsang Rop** and Bellah Chepkulei (2015): Perceptions of the Effects SACCOs' Performance in Matatu Business: *A Case of Taita Taveta County, Voi, Kenya*, 77p, Verlag: LAP LAMBERT Academic Publishing ISBN 978-3-659-71772-7.
4. Nancy Chebet Changeiywo, **Bernard K. Rop** and Bellah Chepkulei (2014): A Profile Characteristics of Small and Micro Enterprises in Voi, Kenya: *Taita Taveta County*, 77 p. Verlag/Publisher: Scholar's Press ISBN 978-3-639-70827-1.
5. Richard K. Muthui, David M. Akisa, **Bernard K. Rop** and M. Kabugu (2013): Coal Handling and Equipment Selection: Mui Basin Kitui County, Kenya, 93 p. Verlag: LAP LAMBERT Academic Publishing ISBN 978-3-659-50480-8.
6. Leonard Langat, **Bernard K. Rop** and Bellah Chepkulei (2013): Effect of Interest Rates Spread on Performance: *Banking Industry in Kenya*, 85 p. Verlag/Publisher: LAP LAMBERT Academic Publishing ISBN 978-3-659-49494-9.
7. **Bernard Kipsang Rop** (2013): Oil and Gas Prospectivity: *Northwestern Kenya* (Revised Eds.), 152 p. Verlag/Publisher: LAP LAMBERT Academic Publishing ISBN 978-3-659-49008-8.
8. **Bernard Rop** (2012): Hydrocarbon Potential of Northwest Kenya Rift Basins: *A Synopsis of Evidence and Issues*. 157 p. Verlag: LAP LAMBERT Academic Publishing ISBN 978-3-659-14759-3.
9. Abraham K Murgor and **Bernard Kipsang Rop** (2012): Spread of Islam in Nandi, Kenya: A Comparative Historical Perspective. 180 p. Verlag: LAP LAMBERT Academic Publishing ISBN 978-3-8383-9401-5.
10. **Bernard Kipsang Rop** (1990): Stratigraphic and Sedimentological study of Mesozoic-Tertiary strata in Loiyangalani area, Lake Turkana district, NW Kenya. University of Windsor, Electronic Theses and Dissertations Paper 3602, Canada, 146 p ISBN 0-315-61857-4 .

### **Published Articles in Refereed Journals and Online**

1. **Bernard Kipsang Rop** (2015): Hydrocarbon Prospects under Lake Turkana Basin, NW-Kenya: Based on Geophysical and Geochemical Data Investigations. *Research Journal of Engineering and Technology Vol. 1 (2)*, pp. 41-56, August, 2015 *Research Paper* <http://pearlresearchjournals.org/journals/rjet/index.html>
2. Lylian Ipaat, **Bernard Kipsang Rop** and Bellah Too Chepkulei (2014): Stakeholders' perception on the effect of savings and credit cooperative societies on performance of Matatu businesses in Taita Taveta County in Kenya. *International Journal of Business and Behavioral Sciences (IJBS)* ISSN: 2226-5651, Vol.4, No.11 (November, 2014).

3. John Lugovane and **Bernard K. Rop** (2014): Information Needs for Small Scale Miners (SSM): A case of TaitaTaveta County, Kenya. *International Multidisciplinary Research Journal ISSN 2231-5063 Volume-3 | Issue-12 | June-2014*, Available online at [www.aygrt.isrj.net](http://www.aygrt.isrj.net)
4. Nyaberi, D. M. and **Rop, B. K.** (2014): Petroleum prospects of Lamu Basin, South-Eastern Kenya. *Journal of the Geological Society of India, Volume 83, pp. 414-422.*
5. **Rop, B. K.** (2013): Petroleum Prospects under the Lotikipi Basin, North-Western Kenya. *African Journal of the Education, Science and Technology, Nov/Dec 2013, Vol. 1, No. 3, pp. 7-18.*
6. **Rop, B. K.** and Patwardhan A. M. (2013): Hydrocarbon of Source Rocks Evaluation Study of Lokichar Basin, Northwestern Kenya. *Journal of the Geological Society of India, Volume 81, pp. 575-580.*
7. **Rop, B. K.** (2013): Petroleum potential of the Chalbi basin, NW Kenya. *Journal of the Geological Society of India, Volume 81, pp. 405-414.*
8. **Rop, B.K.** (2012): Hydrocarbon Characteristics of Source Rocks in Loperot-1 Well, NW Kenya. *Journal of The Association of Professional Societies in East Africa, Vol. 4, pp. 5 - 8.*
9. **Rop, B.K.** (2011): Landslide Disaster Vulnerability in Western Kenya and Mitigation Options: A Synopsis of Evidence and Issues of Kivasali Landslide. *Journal of Environmental Science and Engineering (USA), Vol. 5, No. 1, January 2011, Serial No. 38, pp. 110 - 115.*
10. **Rop, B.K.** (2011): Hydrocarbon Characteristics of Source Rocks in Loperot-1 well, NW Kenya: <http://www.epgeology.com/page.php?p=source-rock-loperot-kenya#ixzz1XrBj0DCB>
11. **Rop, B.K.** (2011): Petroleum Potential of NW-Kenya Rift Basins, A Synopsis of Evidence and Issues: <http://www.epgeology.com/announces/new-article-submitted-and-published-online-t1181.html#ixzz1UB9FNK7x>
12. Obondo, B.O.; Kavishe, E.P.L.; Odhiambo, B.D.O. and **Rop, B.K.** (2010): Characterization of Iron Ores from Funyula Division, Busia District, Western Province, Kenya. *Journal of Science Technology Education and Management (J-STEM), Vol. 3, Nos. 1 & 2, September 2010, pp. 30 - 46.*
13. Key, R.M.; **Rop, B.P.** and Rundle, C.C. (1987): The development of the Late Cenozoic alkali basaltic Marsabit Shield Volcano, northern Kenya. *Journal of African Earth Sciences, Vol. 6, pp. 475 - 491.*

### **Published Technical Reports**

14. Key, R.M.; **Rop, B.K.** and Rundle, C.C. (1987): *Geology of Marsabit area. Republic of Kenya, Mines and Geological Department: Report No. 108, 42 p.*
15. **Rop, B.K. et al.** (1995): *Hydrocarbon Potential of the Onshore and Off-shore Lamu Basin, Northeast Kenya; National Oil Corporation of Kenya (NOCK) integrated report, 97 p.*



16. **Rop, B.K. et al.** (2005): *Hydrocarbon Potential of the Anza Basin, National Oil Corporation of Kenya (NOCK) integrated report, 76 p.*

**Unpublished Thesis**

17. **Rop, Bernard Kipsang** (2003): Subsurface stratigraphical studies of Cretaceous-Tertiary basins of northwest Kenya. (*Unpublished Ph.D. Thesis*, University of Pune, India), 174 p.

**Peer Reviewed Papers for Publications:**

1. An Experimental Study on Simulation of Stress Sensitivity to Production of Volcanic Gas from Its Reservoir, Junggar Basin, China. Journal of the Geological Society of India.
2. Identification and Petrophysical Evaluation of Thinly Bedded Low Resistivity Pay Reservoir in the Niger Delta. Journal of the Geological Society of India
3. Flow Unit Characterization: Key to delineating Reservoir Performance in "Aqua-Field", Niger Delta, Nigeria. Journal of the Geological Society of India.
4. Undrained saturated expansive soil: A case study of Awgu shale in Oji-Agu Akpugo south eastern Nigeria. Journal of the Geological Society of India.
5. The Application of Chromatographic Gas Ratio Analysis in Reservoir Fluid Evaluation of "Beta" Field in the Congo Basin. Journal of the Geological Society of India.
6. Prospect and Play Analysis of the 'Alpha Area', Central Swamp 1 Depobelt, Niger Delta, Nigeria. Journal of the Geological Society of India.
7. Structural and stratigraphic interpretation of geophysical data of the Fenchuganj Gas Field in the Surma Basin, Bangladesh. Journal of the Geological Society of India.
8. An Overview of the Khuff Formation in the Greater Arabian Basin, with special emphasis on the Northern Khuff in Saudi Arabia. Journal of the Geological Society of India.
9. Assessment of Heavy Metal Contamination in Soils around Lead (pb)-zinc(zn) Mining areas in Enyigba, Southeastern Nigeria. Journal of the Geological Society of India.
10. The Effect of Diagenesis on Reservoir Quality of Mamu Sandstone, Anambra Basin, Nigeria. Journal of the Geological Society of India.
11. Seismic Characterization of the Semutang Gas Field, Bengal basin, Bangladesh. Journal of the Geological Society of India.
12. Interpretation of Aeromagnetic data of Idah area in north central Nigeria using combined methods, Journal of the Geological Society of India.
13. Geothermal gradients and heat flow variations in parts of the eastern Niger delta, Nigeria, Journal of the Geological Society of India.

## **Articles in Conferences' Proceedings:**

1. G.K Bett, P. Keoko and **B. K. Rop** (2015): *The Implications of Geology and Structure on Iron Ore Mining at Wajala Mine, Taita Taveta County Taita-Taveta County, Kenya*. Proceedings of the Sustainable Research and Innovation Conference, Nairobi, Kenya, 6-8<sup>th</sup> May 2015. ISSN 2079-6226, pp. 70-73.
2. **Rop, B.K.**, G.K Bett and Seroni Anyona (2015): *Shale Geochemistry of Source Rocks in Lokichar and Chalbi Basins, Northwestern Kenya Rift System*. Proceedings of the Sustainable Research and Innovation Conference, Nairobi, Kenya, 6-8<sup>th</sup> May 2015. ISSN 2079-6226, pp. 98-108.
3. Seroni Anyona and **B. K. Rop** (2015): *The Proposed Gemstone Centre and its Likely Impacts on Small Scale Mining Industry in Taita Taveta County*. Proceedings of the Sustainable Research and Innovation Conference, Nairobi, Kenya, 6-8<sup>th</sup> May 2015. ISSN 2079-6226, pp. 98-108.
4. Seroni Anyona and **B. K. Rop** (2015): *The Character and Profile of Artisanal and Small-Scale Gemstone Mining Community in Taita Taveta County, Kenya*. Proceedings of the Sustainable Research and Innovation Conference, Nairobi, Kenya, 6-8<sup>th</sup> May 2015. ISSN 2079-6226, pp. 109-125.
5. Seroni Anyona and **B. K. Rop** (2015): *Environmental Impacts of Artisanal and Small-scale Mining in Taita Taveta County*. Proceedings of the Sustainable Research and Innovation Conference, Nairobi, Kenya, 6-8<sup>th</sup> May 2015. ISSN 2079-6226, pp. 228-241
6. M.N. Kyalo, I. Fedha, **B. Rop** and S.M. Maranga (2015): *Scouring abandoned mines in search for elusive metal (gold) in Kakamega's Rosterman area – A case study in Kenya*. Proceedings of the Sustainable Research and Innovation Conference, Nairobi, Kenya, 6-8<sup>th</sup> May 2015. ISSN 2079-6226, pp.262-266.
7. **Rop, B. K.** (2014): *Petroleum Prospects of the Lotikipi Basin, NW-Kenya: Based on Gravity and Seismic Data*, In: 7th-9th May 2014 JKUAT Proceedings of School of Mechanical, Manufacturing and Materials Engineering (SOMMME) Conference on Sustainable Research and Innovation, ISSN 2079-6226, pp. 95-99.
8. Bett, G., Baru, K.J., Kabugu, M. and **Rop. B.K.** (2014): *Beneficiation of Iron Ore in Kishushe for the Steel Manufacturing Plant*, In: 7th-9th May 2014 JKUAT Proceedings of School of Mechanical, Manufacturing and Materials Engineering (SOMMME) Conference on Sustainable Research and Innovation, ISSN 2079-6226, pp. 300-304.
9. Richard K. Muthui, M. Kabugu, David M. Ekisa and **Bernard K. Rop** (2014): *Coal Handling and Equipment Selection in Mui Basin, Kitui County, Kenya*, In: 7th-9th May 2014 JKUAT Proceedings of School of Mechanical, Manufacturing and Materials Engineering (SOMMME) Conference on Sustainable Research and Innovation, ISSN 2079-6226, pp. 87-90.
10. A.K. Bett, S. Maranga, **B.K. Rop** and K.N. Mathew (2014): *Mineral Processing; Iron Ore and Coal in Kenya*, Institute of Engineers of Kenya (IEK) Conference, 7th-9th May 2014 South Coast, Mombasa, Kenya.

11. **Rop, B. K.** (2013): *Petroleum prospects under the Lotikipi Basin, Northwestern Kenya*: The 1<sup>st</sup> International Inredisciplinary Conference at the University of Eldoret, Eldoret, Kenya: September 3<sup>rd</sup> – 5<sup>th</sup> 2013.
12. Kinyua, M. and **Rop, B. K.** (2013): *Tectonic Evaluation of East African Rift System: Impact on Hydrocarbon Potential*: The 1<sup>st</sup> International Inredisciplinary Conference at the University of Eldoret, Eldoret, Kenya: September 3<sup>rd</sup> – 5<sup>th</sup> 2013.
13. Riangu'a, M. R. and **Rop, B. K.** (2013): *Female Genital Cutting in Gucha District: Kenya*: The 1<sup>st</sup> International Inredisciplinary Conference at the University of Eldoret, Eldoret, Kenya: September 3<sup>rd</sup> – 5<sup>th</sup> 2013.
14. Langat L.; **Rop, B. K.** and Chepkule, B. (2013): *Effects of Interest Rate Spread on the Performance of Banking Industry in Kenya*: The 4th African International Business and Management (AIBUMA 2013) Conference at The University of Nairobi, School of Business, Lower Kabete Campus, Nairobi, Kenya: July 11-12, 2013
15. Ndirang'u, M. P.; Chepkulei, B and **Rop, B. K.** (2013): *Strategic orientation to open innovation practices by small and micro- enterprises (SMEs) in Kenya*: The 3<sup>rd</sup> Annual International Conference on Innovations for Advancement of Humanity (IFAH 2013) at Eldoret Polytechnic, Main Campus, JL Building, Eldoret, Kenya: 29<sup>th</sup>-31<sup>st</sup> May, 2013.
16. **Rop, B. K.** (2013): *Subsurface Depositional Systems in Lake Turkana Basin, Northwestern Kenya: Based on Gravity and Seismic Data Investigations*, In: 24<sup>th</sup>-26<sup>th</sup> April 2013 JKUAT Proceedings of Mechanical Engineering Conference on Sustainable Research and Innovation, Vol. 5, pp. 73-81.
17. Nzomo M. S., Kinyua E. M. and **Rop B. K.** (2013): *Re-Designing of Raw Materials Handling Systems: A Case Study of EAPCC Kunkur Quarry, Athi River, Kenya*, In: 24<sup>th</sup>-26<sup>th</sup> April 2013 JKUAT Proceedings of Mechanical Engineering Conference on Sustainable Research and Innovation, Vol. 5, pp. 204-210.
18. **Rop, B.K** (2012): *Subsurface Depositional Systems in Lake Turkana Basin, Northwestern Kenya: Based on Gravity and Seismic Data Investigations* 21<sup>st</sup> – 23<sup>rd</sup> March 2012: 13<sup>th</sup> Intl. Geological Society of Kenya Conference, Panafric Hotel, Nairobi.
19. **Rop, B.K** (2011): *Hydrocarbon characteristics of source rocks in Loperot-1 well, northwest Kenya* 20<sup>th</sup> – 23<sup>rd</sup> November 2011: Kenya Geothermal Conference, KICC, Nairobi.
20. **Rop, B.K** (2010): *Hydrocarbon Potential of Northwest Kenya Rift Basins: A Synopsis of Evidence and Issues*. Presented at the 10<sup>th</sup> International Conference on the Geology of the Arab World (GAW 10) held at the Cairo University Conference Centre 10-12 April, 2010.
21. **Rop, B.K** (2009): *Mineral Sector and Vision 2030*. Proceedings of the National Launch of Intl. Year of Planet Earth (IYPE) in Kenya and 12th Geological Society of Kenya Conference, 17-19th March 2009, Panafric Hotel, Nairobi.
22. Mogaka, D.N. and **Rop, B.K** (2008): *Petroleum Prospectivity of Lamu Basin, South-eastern Kenya*. Proceedings of the 2nd International Civil Engineering Conference on Civil Engineering and Sustainable Development, pp. 773-784.

23. **Rop B.K.** and Patwardhan, A.M. (2008): “*Petroleum Prospectivity Under the Lotikipi Basin, North West Kenya*” *Proceedings of The First International Conference On Environmental Studies and Research (Natural Resources & Sustainable Development)*, Environmental Studies and Research Institute (ESRI), Minufiya University – Sadat Branch, Egypt, 7 – 9 April 2008, pp. 868-879..
24. Omuterema, S.; **Rop, B.K.**; China, S.S. *et al.* (2008): *Landslide Disaster Vulnerability in Western Kenya and Mitigation Options; The case of Kuvasali Landslide Disaster*. *Proceedings of the 5<sup>th</sup> International Conference on Landslides, Slope Stability and Safety of Infra-structure*, pp. 159-166.
25. **Rop, B.K.** (2010) 2<sup>nd</sup> – 14<sup>th</sup> May 2010: Presented a paper on *Kenya Mining status at the Interactive Discussion on Mining* in the 18<sup>th</sup> Session of the United Nations Commission on Sustainable Development, New York, UN Hqs.
26. **Rop, B. K.** (2010): *Hydrocarbon Potential of Northwest Kenya Rift Basins: A Synopsis of Evidence and Issues*. Presented at the 10<sup>th</sup> International Conference on the Geology of the Arab World (GAW 10) held at the Cairo University Conference Centre, Egypt, 10<sup>th</sup> -12<sup>th</sup> April, 2010.
27. **Rop, B.K.** (2009) *Hydrocarbon Potential of Lamu Basin, SE Kenya, Based on Seismic and Well Log Data EAPC’09 – 4<sup>th</sup> East African Petroleum Conference*, Mombasa, Kenya, 10<sup>th</sup> – 13<sup>th</sup> March, 2009.
28. Nyaberi, D. N. and **Rop, B.K.** (2009) *Hydrocarbon Potential of Northwest Kenya Rift Basins: A Synopsis of Evidence and Issues; EAPC’09 – 4<sup>th</sup> East African Petroleum Conference*, Mombasa, Kenya, 10<sup>th</sup> – 13<sup>th</sup> March, 2009.
29. Nyaberi, D.N. and **Rop, B.K.** (2008) *CE 2008 2<sup>nd</sup> International Civil Engineering Conference on Civil Engineering and Sustainable Development “Modernizing our infrastructure” – Mombasa, Kenya, 23<sup>rd</sup> – 25<sup>th</sup> Sept. 2008*.
30. Rop, B. K. *et. al.* (2008): *5<sup>th</sup> International Conference on Landslides, Slope Stability and Safety of Infra-structure*. “Landslide Disaster Vulnerability in Western Kenya and Mitigation Options; The case of Kuvasali Landslide Disaster” – *Kuala Lumpur, Malaysia, 24<sup>th</sup> – 2<sup>th</sup> July 2008*.
31. **Rop B.K.** and Patwardhan, A.M. (2008): “Petroleum Prospectivity Under the Lotikipi Basin, North West Kenya” *Minufiya University 1st Annual Intl. Conference on Environment Studies and Research, Sadat City, 7<sup>th</sup>-9<sup>th</sup> April 2008, Egypt*.
32. **Rop, B.K.** (2007): Presented a paper on *Leadership* during the African University Day Seminar at MCU Hall, Kakamega, MMUST, Nov. 12 – 14<sup>th</sup> 2007:
33. **Rop, B.K.** and Patwardhan, A.M. (2007): “*Hydrocarbons Potential of the Lokichar–North Kerio system, northwest Kenya*” *Moi University 3<sup>rd</sup> Annual Intl. Conference – 31<sup>st</sup> July 2007 to 4<sup>th</sup> August 2007, Eldoret, Kenya*.
34. **Rop, B.K.** and Patwardhan, A.M. (2007): “Petroleum Potential under the Lotikipi basin, northwest Kenya” *Moi University 3<sup>rd</sup> Annual Intl. Conference – 31<sup>st</sup> July 2007 to 4<sup>th</sup> August 2007, Eldoret, Kenya*.
35. **Rop B.K. et al** (2006): “Global warming effect on Kenyan coastal structures”, paper presented at the 1<sup>st</sup> Intl. Conference on Disaster Preparedness and Food Security in Africa at Western University, Kakamega, October 2006.

36. **Rop B.K. et al** (2006): “Environmental problems of the modern age”, paper presented at the 1<sup>st</sup> Intl. Conference on Disaster Preparedness and Food Security in Africa at Western University, Kakamega, October 2006.
37. **Rop B.K.** (2006): “*Communication Skills, Stress and Time Management*” paper presented at Academic Advisers Workshop Proceedings at Western University, Kakamega 8<sup>th</sup> – 9<sup>th</sup> Feb. 2006.
38. Makhanu, S.K, **Rop B.K.**, Waswa, G.W. (2006): “*The Montreal Protocol: Barriers in developing countries*”, paper presented at the 1<sup>st</sup> Intl. Conference on Disaster Preparedness and Food Security in Africa at Western University, Kakamega, October 2006.
39. **Rop, B. K.** (2002) *Subsurface Geology of Kenya Rift Basins, Adjacent to Lake Turkana, Based on Gravity Anomalies at seminar on Sedimentation & Tectonics in Space and Time*, S.D.M. College of Eng. & Tech., Dharwad, INDIA, April 16<sup>th</sup> – 18<sup>th</sup> 2002.
40. **Rop, B. K.** (2001) *Subsurface Geology of Kenya Rift Basins, Adjacent to Lake Turkana, Kenya* at Seminar on Geology, Processing & Metallurgy of Economic Minerals (GEOPMEM), Dept. of Earth Science, P.G. Centre, Nandihali, INDIA, Dec. 20<sup>th</sup> – 21<sup>st</sup> 2001.
41. Key, R.M. and **Rop, B. K.** (1985) *Geology of Marsabit area* at the Annual Conference of the Geological Society of Kenya, Intl. Hotel, Nairobi, July 1985.

## I INTERNATIONAL CONFERENCES AND MEETINGS ATTENDED

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- 1) March 3<sup>rd</sup> – 6<sup>th</sup> 2015 participated in the 7<sup>th</sup> *East Africa Petroleum Conference and Exhibition (EAPC’15) in Serena Hotel, Kigali, Rwanda* whose objective was to promote oil and gas exploration in the five East African States.
- 2) 26<sup>th</sup> – 30<sup>th</sup> April 2010: Attended and participated in the *Governing Council Meeting at the Southern Eastern African Mining Center, Dar es Saalam, Tanzania*, whose objective is to enhance and promote our individual countries’ fledgling mining sectors’ potential through training and workshops which are demand-driven.
- 3) 2<sup>nd</sup> – 3<sup>rd</sup> April 2009: *Geology, Mining and Innovation: Wealth Creation and Poverty Reduction in Africa*, JKUAT Mechanical Engineering Department Seminar on Sustainable Research and Innovation.
- 4) 2<sup>th</sup> – 5<sup>th</sup> April 2009: Attended and participated in the *Governing Council meeting at the Southern Eastern African Mining Center, in Luanda, Angola* whose objective is to enhance and promote our individual countries’ fledgling mining sectors’ potential through training and workshops which are demand-driven.
- 5) 3<sup>rd</sup> – 6<sup>th</sup> October 2009: Attended the *United Nations Commission on Sustainable Mining Extractive Developments, Geneva, Switzerland, UN Hqs.* Mineral Extractive Industry Development.

- 6) 16<sup>th</sup> – 20<sup>th</sup> March, 2009: *Kenya's Experience in Efforts to Automate Access to Geoscience Information: GIRAF 2009 - Geoscience InfoRmation in Africa*, Windhoek, NAMIBIA.
- 7) March 3 – 5<sup>th</sup> 2005 participated in the *East Africa Petroleum Conference in Entebbe, Uganda* whose objective was to promote oil and gas exploration in the three East African States.
- 8) March 2– 5<sup>th</sup> 2003 participated in the *East Africa Petroleum Conference in Safari Park Hotel, Nairobi, Kenya* whose objective was to promote oil and gas exploration in the three East African States

## **J SHORT COURSES ATTENDED LOCALLY & INTERNATIONALLY**

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1. November 12 – 14<sup>th</sup> 2007: *Certificate on Quality Management Systems (Internal Quality Auditing Course)* according to ISO 9000/2000 Standards, Kakamega: Kenya Bureau of Standards.
2. June 6 – 8<sup>th</sup> 2006: *Quality Management Systems Seminar according to ISO 9000/2000 Standards*, Kakamega: Kenya Bureau of Standards.
3. May 16 – 21<sup>st</sup> 2005: *United Nation's regional training course on the preparation of a Submission to the Commission on the Delineation of the Outer Limits of the Continental Shelf beyond 200 nautical miles - held in Colombo, Sri Lanka.*
4. April 25<sup>th</sup> – May 6<sup>th</sup> 2005: *Communication Skills and Changed Management Course* – KIA Nairobi.
5. February 3rd – 28th, 1992 *Attended Training Needs Assessment Workshop (The Agricultural & Natural Resources Sector)* Kakamega, KENYA.
6. April 1984 - *Attended UNESCO workshop/seminar on Geological interpretation of Remotely Sensed Data at the African Regional Centre for Services in Surveying, Mapping and Remote Sensing, Nairobi, Kenya.*

## **K OTHER SEMINARS AND COMMUNITY SERVICE CONSULTANCIES**

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1. Board Member of Kipkelion District Education Board – w.e.f. January 2008
2. Initial Environmental Audit Report for Tsavolite Mines Limited – January 2005
3. Initial Environmental Audit Report for Chaudry Fabricators and Renovators, Nairobi – January 2005
4. Initial Environmental Audit Report for Vee-Vee Patel & Sons Quarry Mines Limited, Athi River – February 2005
5. Initial Environmental Audit Report for Virji Patel & Sons Concrete Tiles Limited, Nairobi – February 2005
6. Initial Environmental Audit Report for Corner Provision Stores Limited, Nandi Hills – April 2005

7. Initial Environmental Audit Report for Nandi Hills Plaza Limited, Nandi Hills – August 2005
8. Initial Environmental Audit Report for Chemartin Tea Co. Limited, Nandi Hills – October 2005
9. Initial Environmental Audit Report for Misty Hills Petals Limited, Nandi Hills – November 2005
10. Environmental Impact Assessment (EIA) Report for Mariam Self Help Water Project, Chilchila Location, Kipkelion District – October 2006
11. Settlement design, geological and structural stability of the landslide at Kubasari area, Malava District, Western Province – August 2007
12. Feasibility Study Report on Evaluation of Tsavolite Mining Limited Co., Taita Taveta District - 2004
13. Project Feasibility Report on Evaluation of Proposed Elba Mining of Gemstones in Masiketa (Baragoi) Samburu District, Rift Valley Province, Kenya – May 2007
14. Environmental Impact Assessment (EIA) Report for Elba Mining Limited Co., Masiketa (Baragoi) Samburu District, Rift Valley Province, Kenya - May 2007
15. Project Feasibility Report on Evaluation of Nguu Rubies Mining Limited Co., Simba Hills, Makueni District Easter Province, Kenya - June 2007
16. Environmental Impact Assessment (EIA) Report for Nguu Rubies Mining Limited Co., Makueni District Easter Province, Kenya - June 2007
17. Environmental Impact Assessment (EIA) Report for Teldet Self Help Water Project, Kokwet Sub-Location, Kipkelion District – December 2007
18. Environmental Impact Assessment (EIA) Report for Kimologit Water Project, Borborwet Sub-Location, Kipkelion District – January 2012.
19. Environmental Impact Assessment (EIA) Report for Kipsinende Technical Institute Project, Chill-chilla Location, Kipkelion West Constituency, Kipkelion District – September 2014.

## **REFEREES:**

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- 1) Prof. Mabel Imbuga, PhD  
Vice Chancellor,  
Jomo Kenyatta University of Agriculture & Technology,  
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A handwritten signature in blue ink, appearing to read 'B. Rop', with a long horizontal stroke underneath.

**DR. BERNARD KIPSANG ROP, PhD (MGSK, Reg. Geol.)**

February 2016

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