

Dr. KOECH, PIUS KIBET

PROFESSIONAL EXPERIENCE

1. [Jan 2013 – To date]... Member of an ISO committee drafting and reviewing international standards through Kenya Bureau of Standards (KEBS) in collaboration with relevant ministries.
2. [Feb 2019 – To Date]..... [University of Eldoret] [Eldoret, Kenya]
Lecturer, Department of Mechanical & Production Engineering
3. [March 2009 – March 2015]..... [Numerical Machining Complex Ltd] ... [Nairobi, Kenya]
Foundry Engineer, Foundry Department - NMC
4. [Jan 2013 – Dec 2014]..... [University of Nairobi] ... [Nairobi, Kenya]
Part time Lecturer, Department of Mechanical & Manufacturing Engineering

PUBLICATIONS SUBMITTED TO INTERNATIONAL JOURNALS

1. **Pius Kibet Koech**, Chaur-Jeng Wang, "High-temperature corrosion behaviour of aluminized-coated and uncoated Alloy 718 under cyclic oxidation and corrosion in NaCl vapour at 750 °C ", Oxidation of Metals, Vol. 90, Issue 5-6, (2018), pp. 713-735. doi.org/10.1007/s11085-018-9865-2
2. **Pius Kibet Koech**, Chaur Jeng Wang, "Performance characteristics of hot-dip and plasma spray aluminide coated nickel-based superalloy 718 under cyclic oxidation in water vapour", Materials Science, Vol. 25, Issue 4, (2019).
3. Chaur-Jeng Wang, **Pius Kibet Koech**, Xuan-Zheng Lin "High temperature degradation mechanism of aluminide coatings on titanium alloys under cyclic oxidation", Journal of the Chinese Institute of Engineers, (2019) doi.org/10.1080/02533839.2018.1559770

EDUCATION

1. [March 2015 – Dec 2018 :] NATIONAL TAIWAN UNIVERSITY OF SCIENCE & TECH
 - Degree Awarded:. **Ph.D in Mechanical Engineering** (Materials Science option).
 - Theses-Project:....High Temperature Oxidation and Corrosion of metals (Superalloys).
 - Courses:..... Phase Transformation, Advanced Strength & Fracture of materials, High Temperature Corrosion, Metallurgical Thermodynamics, Advanced Tribology, Electro-ceramics, X-ray Diffraction and Crystallography, etc.
2. [Oct 2010 – Dec 2012 :] UNIVERSITY OF NAIROBI
 - Degree Awarded:. **Master of Science in Mechanical Engineering** (Industrial Eng).
 - Theses-Project:....Studying the effects of iron on properties of Aluminium-silicon alloys.
 - Courses:..... Production Planning, Management Information System, Maintenance Management, Quality Control & Reliability, Work-system Design & Measurement, Engineering Economics, Operation Research, etc.
3. [October 1996 – October 2001:] UNIVERSITY OF NAIROBI
 - Degree Awarded:**Bachelor of Science in Mechanical Engineering**.
 - Final Year Project:Design and fabrication of a lathe dynamometer
 - Final Grade:Second-class honors degree, Upper division.
4. [February 1991 – November 1994:] KATILU SECONDARY SCHOOL [LODWAR]
 - Certificate Awarded:. K.C.S.E Examination, Mean grade achieved B+

PROFESSIONAL MEMBERSHIPS

- 1) Committee member of International Standards Organization (ISO) and KEBs
- 2) Registered with the Engineers Board of Kenya (E B K)
- 3) Member, Institution of Engineers of Kenya (I E K).

FUTURE CAREER AMBITIONS:

To work in situations which require total dedication, creativity, evaluation and decision-making.
My biggest dream lies in working with reputable institution of higher learning in fields related to production, operations and material science and engineering.

OTHER COURSES ATTENDENT

- 1) **Non Destructive Testing** course in **Morocco** from December 2014 to February 2015 through **International Atomic Energy Agency (IAEA)**
- 2) Seminar on Machinery in Beijing, China in October to November 2014
- 3) Appraisal Training course by Kenya School of Government in February 2013
- 4) ISO Training Course at Stem Hotel, Nakuru in April 2009
- 5) Internal Audit training course in November 2008
- 6) Engineering Students Association career's workshop Programme on 23rd September 2000 at K.C.C.T Mbagathi Nairobi.
- 7) Computer Course by Institute of Computer science, Eldoret

OTHER SKILLS

- Good creative qualities in any job.
- Can communicate in English and Kiswahili.
- Can drive class 'B' 'C' and 'E' of vehicles.
- Computer knowledge i.e. can comfortably use computers; Ms-Word, Ms-Excel, Ms-Access, Ms-Power point, Page-Maker and Office Equipment

COLLEGE ATTACHMENT AND INDUSTRIAL VISITS

FOURTH TERM: Industrial Attachment and Trips to:

- | | |
|-------------------------------------|---|
| = Olkaria geothermal power station. | = Kenya Bureau of Standards. |
| = Coca cola Company. | = East African Portland Cement Factory. |
| = General Motors. | = Kenya Airways. |

HOBBIES

Games:.....Athletics, Learning new innovations, Reading journals on new inventions in technology and reading socially motivating novels, aspiring and enhancing books, Swimming, Playing Cards and Chess

REFERENCE:

- | | |
|---|--|
| 1. <i>Prof. Stephen Mutuli,</i>
<i>Dept. of Mech Engineering,</i>
<i>University of Nairobi,</i>
<i>P. O. Box 30197 - 00100</i>
<i>Nairobi, Tel: 254 (020) 318262</i> | 3. <i>Dr. Eng. Kipkemboi Kollongei,</i>
<i>Dean, School of Engineering.</i>
<i>University of Eldoret,</i>
<i>P. O. Box 1125 - 30100,</i>
<i>Eldoret, Tel: 254 (722) 235223</i> |
| 2. <i>Prof. Chaur-Jeng Wang</i>
<i>Depart. of Mechanical Engineering,</i>
<i>Nat. Taiwan Uni of Sci & Tech</i>
<i>43 Keelung Rd, Sec 4, Taipei 106,</i>
<i>Taiwan. cjwang@mail.ntust.edu.tw</i>
<i>Tel: 886 (02)2737-6441,</i> | 4. <i>Prof. George Rading</i>
<i>Depart. of Mechanical Engineering,,</i>
<i>University of Nairobi,</i>
<i>P. O. Box 30197 - 00100,</i>
<i>Nairobi.</i>
<i>Tel: 254 (020) 318262</i> |