

Curriculum vitae
Prof. (Eng.) Paul M. Wambua, FIEK
P.O Box 7074 Eldoret 30100
Kenya

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Education

2004	Katholieke Universiteit Leuven, Belgium	Doctor of Engineering (PhD)
1995	University of Leeds, UK	M.Sc. Textile Science & Engineering
1989	University of Engineering and Technology, Lahore, Pakistan	B.Sc. Textile Engineering
1982	Lenana School	“A” Levels
1980	Kabete Technical School,	“O” Levels

Professional experience

July 2013- July 2018	Deputy Vice-Chancellor (Research, Technology Management and Community Linkages), Dedan Kimathi University of Technology (DeKUT)
2013	Deputy Principal (Academic Affairs) , Kirinyaga University College
2013	Inaugural lecture , Engineering polymeric composite materials: a tool to fast track Kenya’s technological development.
2012-2017	Visiting Professor , International Graduate Summer School, Donghua University, China, <i>every July</i>
2012	Professor of Materials Engineering , Department of Manufacturing, Industrial and Textile Engineering, Moi University.
2012	External Examiner , Kenya Polytechnic University College
2011	Dean , School of Engineering, Moi University
2010	External Examiner , National University of Science and Technology, Bulawayo, Zimbabwe.
2009	Associate Professor of Materials Engineering , Department of Manufacturing, Industrial and Textile Engineering, Moi University.
2009	Part time lecturer (Mechanics of composite materials), Department of Civil and Structural Engineering, Moi University, Kenya.
2008 – 2011	Head of Department , Department of Manufacturing, Industrial and Textile Engineering, Moi University.
2007 - 08	Postdoctoral fellow/Senior researcher , Council for Scientific and Industrial Research (CSIR), Materials Science and Manufacturing, Port Elizabeth, South Africa. Project: Development of an aircraft cabin component based on natural fibre composites.
2005–2012	Part time lecturer (Composite materials), Department of Mechanical and Production Engineering, Moi University, Kenya.
2004	Senior lecturer , Department of Manufacturing, Industrial and Textile Engineering, Moi University, Kenya.
1998 - 99	Acting Head , Department of Textile Engineering, Moi University.
1996	Lecturer , Department of Textile Engineering, Moi University.
1995	Assistant Lecturer , Department of Textile Engineering, Moi University.
1995	Time-Table and Examinations Co-ordinator , Department of Textile Engineering, Moi University.

1992 **Graduate assistant**, Moi University, Department of Textile Engineering.
1989 - 92 **Industrial Development Officer/Assistant Engineer**, Ministry of Industry, Nairobi.

Management training

2018 **Governance and Strategic Management**, Simba Lodge, 21st to 24th March, 2018
2016 **Managing for results**, North Coast Hotel, 25th to 29th January, 2016
2012 **Finance** for Non-Finance Managers and Directors, Hilton Hotel, 18th and 19th October, 2012
2010 **Corporate governance training course**, facilitated by KIM International Centre for Leadership and Management Development and Africa Corporate Governance Advisory Services.

Management experience

July 2013-
July 2018 **Member**, DeKUT University Management Board
2012 **Member**, Development of Research Uptake in Sub-Saharan Africa (Drussa)
2011 **Chairman**, PSSP Technical Committee, Moi University
2011 **Chairman**, School of Engineering Management Board.
2011 **Member**, Finance, Planning and Development Committee, Moi University
2011 **Member**, Board of the Institute of Open and Distance Learning, Moi University
2011 **Member**, Academic Affairs Board, Moi University
2011 **Member**, Exam irregularity committee, Moi University
2010 **Chairman**, Institution of Engineers of Kenya, Western Branch.
2008-2013 **Member**, Moi University Senate.
2008-2011 **Head**, Department of Manufacturing, Industrial and Textile Engineering, Moi University.
2007-2008 **Research** project management, CSIR, South Africa.
2006-2012 **Council member**, Institution of Engineers of Kenya.
2006-2010 **Vice Chairman**, Institution of Engineers of Kenya, Western Branch.
2001-2004 **Research** project management, Leuven, Belgium.
1998-1999 **Ag. Head** of Department of Textile Engineering, Moi University.
1995-2013 **Headed** and participated in numerous senate Ad hoc committees.
1992-1993 **Personnel management** and other departmental administrative duties, Department of Textile Engineering, Moi University.

Other positions of responsibility

July 2016-
July 2018 **Chairman**, Collective Bargaining Agreement (CBA) negotiations with three DeKUT University Staff Unions: UASU, KUSU and KUDHEIA
July 2016-
July 2018 **Chairman**, DeKUT Students disciplinary appeals committee

Professional membership

2018 **Member**, Institute of Directors of Kenya
2011 **Fellow**, The Institution of Engineers of Kenya
2011 **Member**, Eminent Fellow Engineers Forum
2009 **Full Member**, Kenya Institute of Management.
2005 **Corporate Member**, The Institution of Engineers of Kenya.
2001 **Registered Professional Engineer**, Engineers Board of Kenya.
2001 **Member**, Society for the Advancement of Materials and Process Engineering (SAMPE Europe).

1999 **Chartered Member**, The Textile Institute, Manchester, UK.

Thesis Examination

- 2016 **Ph.D Thesis External Examiner**, “High Performance Nonwovens in Technical Textiles Application” Nelson Mandela Metropolitan University, Port Elizabeth, South Africa.
- 2014 **Ph.D Thesis External Examiner**, “characterization and optimisation of waterjet impact forces and energy parameters during hydroentanglement process”, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa.
- 2012 **M.Sc. Thesis External Examiner**, Fracture and Failure Behaviour of Sisal and Kenaf Fibre-Reinforced Injection Molded Composites, Tshwane University of Technology, South Africa.
- 2011 **M.Sc. Thesis External Examiner**, “Effects of production methods and composition ratios on physical and mechanical properties of recycled plastic-bamboo composites”, Egerton University, Dept. of Industrial and Energy Engineering.
- 2011 **M.Sc. Thesis External Examiner**, “Limestone comminution with Microwave assistance”, Moi University, Dept. of Mechanical and Production Engineering.
- 2011 **M.Sc. Thesis External Examiner**, “Design of an adaptive controller for cylindrical plunge grinding process”, Jomo Kenyatta University of Agriculture and Technology, Dept. of Mechatronic Engineering.
- 2010 **M.Sc. Thesis External Examiner**, “Aluminium material flow and value chain analysis in the Kenyan industry”, Jomo Kenyatta University of Agriculture and Technology, Dept. of Mechanical Engineering.
- 2010 **M.Sc. Thesis External Examiner**, “A study into steel processing and recycling industry in Kenya”, Jomo Kenyatta University of Agriculture and Technology, Dept. of Mechanical Engineering.
- 2009 **Ph.D Thesis External Examiner**, University of Punjab, Pakistan
- 2007 **M.Sc. External Examiner**, Department of Aerospace and Mechanical Engineering, University of Witwatersrand, South Africa.

List of academic Publications

(a) Published books:

- Engineering Polymeric composite materials: a tool to fast track Kenya’s technological development, **ISBN: 9966-854-87-8**, 2013
- Protective low price composite materials based on natural fibres **ISBN 90-5682-514-3**, published in June 2004.

(b) Book Chapter

- James Njuguna, **Paul Wambua**, Krzysztof Pielichowski and Kambiz Kayvantash, Cellulose Fibers: Bio- and Nano-Polymer Composites, Green Chemistry and Technology, Kalia, Susheel; Kaith, B. S.; Kaur, Inderjeet (Eds.) 1st Edition., 2011, 750 p., Hardcover, ISBN: 978-3-642-17369-1.

(c) Selected Publications

1. Obed Akampumuza, **Paul Wambua**, Azzam Ahmed, Wei Li, Xiao-Hong Qin, A review of the applications of bio composites in the automotive industry, Polymer Composites, Volume 38, Issue 11, November 2017, Pages 2553–2569
2. Rotich K. Gideon, Hangjun Hu, **Paul Wambua**, Bohong Gu, Characterizations of Basalt Unsaturated Polyester Laminates Under Static Three-Point Bending and Low-Velocity Impact Loadings, Polymer Composites, Vol. 35, Issue 11, Nov. 2014.
3. Moshibudi C Khoathane, Emmanuel R Sadiku, **Paul M Wambua**, Effect Of Water Glass

Treatment On The Mechanical and Thermooxidative Properties of Kenaf and Sisal Fibres, Journal of Reinforced Plastics and Composites, Journal of Reinforced Plastics and Composites Volume 31 Issue 19, October 2012.

4. Edward O.V.Odhong, **Paul M. Wambua**, Abel N.Mayaka, Recycling and value addition to thermoplastic wastes to produce plant fibre reinforced composites, Journal of Macromolecules, Vol. 8, Issue 1, 2012, ISSN: 0974-7478.
5. **P.M. Wambua**, A.N. Mayaka and E.O.V. Odhong, Recycling and Fibre Reinforcement of Thermoplastic Wastes to Produce Composites for Construction Works, Research Journal of Applied Sciences, Engineering and Technology, Vol. 4(7) March 2012.
6. Peter Chemweno, Wilson O Ogola, **Paul Wambua**, John Githaiga, Sheila Odhiambo, Naftali Kiplagat, Patrick Nziu, Design of a Crop Residue Burner for Cereal Drying, Journal of Chemical Technology, Vol. 6, issue 4, 2011.
7. Nzila C., Dewulf J., Spanjers H., **Wambua P.**, et all, Colour and nutrient removal from textile waste water using an enhanced fluidised bed bioreactor, The African Journal of Technology, Vol. 1, issue 1, 2011 pp 65-79.
8. **P.M. Wambua** and Rajesh Anandjiwala, A Review of Preforms for the Composites Industry, Journal of Industrial Textiles, Volume 40, Issue 4, April 2011 pp. 310 – 333.
9. **Paul M. Wambua** and Rajesh Anandjiwala. Instrumented drop weight impact on cotton, cotton/flax and cotton/glass composites, International Review of Mechanical Engineering Vol. 5, No. 3, March 2011.
10. **Paul Wambua**, Rajesh Anandjiwala, Failure of natural fibre and hybrid composites under localised explosive blast, International Review of Mechanical Engineering (IREME), Vol. 3. No. 4, 2009, ISSN 1970-8734.
11. **Paul Wambua**, James Njuguna, Kirimi Kiriamiti, Ochieng Aoyi and Charles Nzila. Industrialization and poverty eradication through manufacturing and application of composite materials. In proceedings, Institution of Engineers of Kenya International Conference, Nairobi 22nd to 24th April, 2009.
12. C. Nzila, **P. Wambua** et al. The Potential of Low Cost EPAD System in the Treatment of Textile Mill Effluents, Kenya Journal of Mechanical Engineering, 2008;4(1):1-14.
13. R. Anandjiwala, M. John, **P. Wambua**, S. Chapple, T. Klems, M. Doecker, M. Goulain and L. Erasmus, Bio-based structural composite materials for aerospace applications, in proceedings, 2nd SAIAS Symposium, 14-16 September 2008, Stellenbosch, South Africa.
14. **Paul Wambua**, Rajesh Anandjiwala, Genevieve Langdon and Gerald Nurick. Blast testing of natural fibre and hybrid composites, in proceedings, 29th International Conference SAMPE EUROPE, Hotel Mercure, Porte de Versailles “EXPO”, Paris, France, 31st March to 2nd April, 2008. ISBN 978-3-9522677-7-6.
15. K. Kiriamiti, S. Osembo, **P. Wambua**, A. Ochieng and S. Kiambi. Pulping Non-Wood Material Using Refinery Technology, Proceedings of the Conference on Collaborative Research for Technological Development, Kampala, Uganda, 17th to 21st December, 2007.
16. **P.M. Wambua**, Maya John and Rajesh Anandjiwala, Low velocity impact on cotton and hybrid composites, Proceedings of the Fibre Reinforced Composites Conference, Port Elizabeth, 9-12 Dec. 2007, ISBN 10: 0-620-37679-1 Fibre Reinforced Composites Conference 2007.
17. James Njuguna, **Paul Wambua**, Tim Jackson, Stefan Liesker, Sam Monoogian, Gerardo Salazar and Erik Schuivens, Side Impact Protection Systems for Racing Car using Energy Absorbing Sandwich Structures, Proceedings of the Fibre Reinforced Composites Conference, Port Elizabeth, 9-12 Dec. 2007, ISBN 10: 0-620-37679-1 Fibre Reinforced Composites Conference 2007.
18. **Paul Wambua**, Huxiang Hu, and Ignaas Verpoest, Impact response of hemp/polypropylene based composites, Kenya Journal of Mechanical Engineering, 2007;3(1):21-28.

19. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest. The response of natural fibre composites subjected to ballistic impact by fragment simulating projectiles, *Composite Structures*, 2007;77(2):232-240.
20. **Paul Wambua**, Huxiang Hu, Ignaas Verpoest. Low velocity impact of hemp reinforced polypropylene composites. In proceedings, 27th International Conference SAMPE EUROPE, Hotel Mercure, Porte de Versailles "EXPO", Paris, France, 27th to 29th March 2006.
21. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest. Protection, against secondary fragmentation from AP mines based on natural fibre composites, *Journal of Mine Action* 9.1 August, 2005; p95-98.
22. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest, Impact on natural fibre-reinforced polypropylene composites: failure modes. In proceedings, The Textile Institute 83rd World Conference, Shanghai, China, 23rd – 27th May 2004; vol. 3:1065 -1068.
23. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest. An anti-personnel mine protection based on natural fibres. In proceedings, The 4th International Symposium on Materials from Renewable Resources, MesseCongressCenter Erfurt, Germany, 11th - 12th September 2003, CD Paper No S1-14.
24. **Paul Wambua**, Jan Ivens and Ignaas Verpoest. Natural fibres: can they replace glass in fibre reinforced thermoplastics? *Composites Science and Technology*, 2003;63:1259-1264.
25. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest. Mechanical behaviour and ballistic impact response of hemp and flax fabric polypropylene composites. Proceedings, 23rd Risø International Symposium on Materials Science: Sustainable natural and polymeric composites – science and technology, Risø National Laboratory, Roskilde, Denmark, 2-5 September 2002, p357-365.
26. **Paul Wambua** and Ignaas Verpoest. Hemp Fabric Reinforced Polypropylene Composites: An Investigation of the Mechanical Properties. In proceedings, 10th European Conference on Composite Materials (ECCM-10), Brugge, Belgium, June 3rd – 7th 2002, CD edition.
27. Ochieng A, Ogada T, Sisenda W, **Wambua P**. Brewery wastewater treatment in a fluidised bed bioreactor, *Journal of hazardous materials*: 90: (3) 2002, p311-321.
28. **Paul Wambua**, Jan Ivens and Ignaas Verpoest. Some mechanical properties of kenaf/polypropylene composites prepared using a film stacking technique. In proceedings, International Conference on Composite Materials (ICCM-13) Beijing, China, June 25-29 2001, CD-ROM paper ID 1125.
29. Huang YD, Liu YL, **Wambua P**. Formation of ultrafine scale structures in aluminium containing small amounts of particles by conventional rolling deformation, *Journal of materials science* 36: (19) 2001, p4711-4717.
30. **Wambua P M**. The effect of twist angle on the modulus in worsted and semi- worsted staple yarns, *Journal of agriculture, science and technology* 2: (1) 1999, p71-76.

Other articles (not peer reviewed)

31. **Wambua PM**. Composite materials: Can Kenya afford to lag behind? *Journal of the Institution of Engineers of Kenya*, May/June 2006 P28-9.
32. **Wambua PM**. Composite materials, *Student Technologist*, vol. 12, 2005:p4-5.

(d) Conference Presentations

1. **P. M. Wambua**, James Njuguna and Rajesh Anandjiwala, Energy absorption mechanisms of natural fibre composites, 20th Annual International Conference on Composites, Nano or Metals Engineering, (ICCE-20) July 22-28, 2012, Beijing, China.
2. A. N. Mayaka, **P. M. Wambua**, O. V. E. Odhong, Recycling of Thermoplastic Wastes to produce Materials for Construction Works, *Technology Convergence: -The Challenges, Risks and Opportunities*, Multimedia University College of Kenya, 1st to 3rd December, 2011.
3. **Wambua P. M.** and Brown K., Value addition of natural fibres through composites technology,

East African cotton, textile and apparel (CTA) value chain conference in Africa to develop competitiveness, Mombasa 1st to 4th November, 2011.

4. **Paul Wambua** and Rajesh Anandjiwala, Failure of Natural Fibre Composites Subjected to Impact, International Symposium on Sustainable Composites, Donghua University, Shanghai, China. 5th to 8th October, 2011.
5. A.N. Mayaka, **P. Wambua**, E.O.V. Odhong, Recycling and Value Addition to Thermoplastic Wastes to Produce Composites for Aircraft Interiors and Exteriors, Moi University 7th International Conference, Eldoret, 7th to 10th September, 2011.
6. **Paul Wambua** and James Njuguna, Energy absorption mechanisms of natural fibre and hybrid composites subjected to drop weight impact, Moi University 6th International Conference, Eldoret, 7th to 10th September, 2010.
7. Norbert Muya and **Paul Wambua**, Viability of natural fibre reinforced composites industry in Kenya, Moi University 6th International Conference, Eldoret, 7th to 10th September, 2010.
8. Ruella Singh, Krishnie Moodley, **Paul Wambua**, Anil Kumar, Maurice S. Onyango, Aoyi Ochieng, Removal of cobalt using agricultural adsorbents, Moi University 6th International Conference, Eldoret, 7th to 10th September, 2010.
9. **Paul Wambua**, James Njuguna, Kirimi Kiriamiti, Ochieng Aoyi and Charles Nzila. Industrialization and poverty eradication through manufacturing and application of composite materials. Institution of Engineers of Kenya International Conference, Nairobi 22nd to 24th April, 2009.
10. **Paul Wambua**, Rajesh Anandjiwala, Genevieve Langdon and Gerald Nurick. Blast testing of natural fibre and hybrid composites. 29th International Conference SAMPE EUROPE, Hotel Mercure, Porte de Versailles "EXPO", Paris, France, 31st March to 2nd April, 2008.
11. **P.M. Wambua**, Maya John and Rajesh Anandjiwala, Low velocity impact on cotton and hybrid composites. Fibre Reinforced Composites Conference, Port Elizabeth, South Africa, 9-12 Dec. 2007.
12. James Njuguna, **Paul Wambua**, Tim Jackson, Stefan Liesker, Sam Monoogian, Gerardo Salazar and Erik Schuivens. Side Impact Protection Systems for Racing Car using Energy Absorbing Sandwich Structures, Fibre Reinforced Composites Conference, Port Elizabeth, South Africa, 9-12 Dec. 2007.
13. **Paul Wambua**, Huxiang Hu, Ignaas Verpoest. Low velocity impact of hemp reinforced polypropylene composites, 27th International Conference SAMPE EUROPE, Hotel Mercure, Porte de Versailles "EXPO", Paris, France, 27th to 29th March 2006.
14. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest. An anti-personnel mine protection based on natural fibres, The 4th International Symposium on Materials from Renewable Resources, MesseCongressCenter Erfurt, Germany, 11th - 12th September 2003.
15. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest. Mechanical behaviour and ballistic impact response of hemp and flax fabric polypropylene composites, 23rd Risø International Symposium on Materials Science: Sustainable natural and polymeric composites – science and technology, Risø National Laboratory, Roskilde, Denmark, 2-5 September 2002.
16. **Paul Wambua** and Ignaas Verpoest. Hemp Fabric Reinforced Polypropylene Composites: An Investigation of the Mechanical Properties, 10th European Conference on Composite Materials (ECCM-10), Brugge, Belgium, June 3rd – 7th 2002.
17. **Paul Wambua**, Jan Ivens and Ignaas Verpoest. Some mechanical properties of kenaf/polypropylene composites prepared using a film stacking technique, International Conference on Composite Materials (ICCM-13) Beijing, China, June 25-29, 2001.
18. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest. Development of an anti-personnel mine protection based on natural fibres, SAMPE Student Conference, Paris, 29th -31st March 2003.
19. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest. Ballistic properties of Flax and Hemp Fabric Polypropylene Composites, SAMPE Student Conference, Wijnmaal, Belgium,

29th – 30th January 2003.

20. **Paul Wambua**, Bart Vangrimde, and Ignaas Verpoest. The response of hemp and flax fabric polypropylene composites subjected to ballistic impact, Faculty of Engineering Ph.D Symposium, Katholieke Universiteit Leuven, Belgium, 11th December 2002.
21. **Paul Wambua**, Bart Vangrimde, Stepan Lomov and Ignaas Verpoest. Ballistic behaviour of hemp fabric reinforced polypropylene composites, 14th U.S. National Congress of Theoretical and Applied Mechanics, (USNCTAM14) [Blacksburg](#), Virginia, USA, 23rd - 28th June 2002.
22. **Paul Wambua** and Ignaas Verpoest. Mechanical properties of hemp fabric reinforced polypropylene composites, Symposium on Innovative materials and processes for polymer composites, Leuven, Belgium, 14th – 15th March 2002.
23. **Paul Wambua**, Jan Ivens and Ignaas Verpoest. Natural fibre composites: Can they replace glass in fibre reinforced thermoplastics?, ECO-1 conference, London, UK, 3rd - 4th September, 2001.

Selected Presentations in Seminars, colloquium and workshops

- **Paul Wambua**. Success and Challenges of natural fibre composites, Polymer composites colloquium, Pretoria, South Africa, 22nd August, 2007.
- **Paul Wambua**. The properties and increasing applications of composite materials, Council of Industrial and Scientific Research (CSIR), Port Elizabeth, South Africa, 18th April, 2007.
- **Paul Wambua**. Composite Materials: Past, Present and Future, School of Engineering, Moi University, Eldoret, Kenya, 30th November 2005.
- **Paul Wambua** and Erick Oyondi. Training Opportunities for the Textile Industry in the National Universities, Stakeholders Seminar for The Textiles and Allied Industries, Directorate of Industrial Training, Athi River, Kenya, 17th June 2005.
- **Paul Wambua**. Composite Materials: A wake up call for Kenya, Faculty of Technology, Moi University, Eldoret, Kenya 31st March 2005.
- **Paul Wambua**, Quality control in the textile industry”, Maceom Engineering Consultants, Eldoret Kenya, May 1996.

Other Seminars, conferences and training courses attended

- March 2018 The 3rd International Conference on Manufacturing, Material and Metallurgical Engineering (ICMMME 2018), Kuala Lumpur, Malaysia
- March 2017 The 7th International Conference on Key Engineering Materials Penang, Malaysia, March 11-13, 2017
- November 2016 Academia-Public-Private Partnership Forum and Exhibitions, Julius Nyerere International Convention Centre, Dar es Salaam, Tanzania, organised by the Inter-University Council of East Africa (IUCEA).
- April 2015 International Universities Networking Conference for Middle East and Africa held at Hilton Dubai Jumeirah Resort – Dubai Engineer’s forum, Eldoret.
- June 1998
- April 1998 Institution of Engineers of Kenya annual conference on developing and sustaining infrastructure.
- August, 1991 Local Seminar on Industrial sub-contracting organised by United Nations Industrial Development Organisation (UNIDO).
- January-
March, 1991 Machine Design and Manufacturing at the African Regional Centre for Engineering Design and Manufacturing (ARCEDEM), Ibadan, Nigeria.

University teaching record

For undergraduate, masters and doctoral students

- Materials recycling (doctoral students)
- Composite Materials (undergraduate and postgraduate students)
- Mechanics
- Manufacturing
- Materials testing (destructive and non-destructive)

Research interests

- Processing of polymer composite materials
- Mechanical testing of materials
- Natural fibre composites
- Low and ballistic velocity impact testing of materials
- Armour materials
- Explosive blast testing
- Fibre metal laminates

Journals Refereed

2018 Referee, Journal of Materials Research and Technology
2017 Referee, Journal of Materials Research
2017 **Referee**, Journal of Industrial Textiles
2016 **Referee**, Journal of Materials Research
2014 **Referee**, Journal of Materials Science
2012 **Referee**, SCIENCE CHINA Physics, Mechanics & Astronomy
2012 **Referee**, International Journal of Mechanical and Materials Engineering
2012 **Referee**, AIAA Journal
2011 **Referee**, International Journal of Polymer Science
2011 **Referee**, Journal of Reinforced Plastics and Composites
2010 **Referee**, Journal of Polymer Engineering
2009 **Referee**, Journal of Express Polymer letters
2008 **Referee**, Journal of the Textile Institute
2007 **Referee**, Journal of Applied Polymer Science
2006 **Referee**, Journal of Industrial Textiles
2005 **Referee**, Kenya Journal of Mechanical Engineering
2004 **Referee**, Composites Science and Technology
2004 **Referee**, Composites A
2002 **Referee**, Composite Structures
1996 **Referee**, Journal of Agriculture, Science and Technology

Postgraduate supervision

- (i). Research collaborator, Joint International Research Programme (RUTI), Indonesia (BPPT)-Belgium (KUL), 2002-2004.
- (ii). Nguyen Minh Tri (Vietnam) "Mechanical properties of hemp and jute fibre reinforced polypropylene composites". Vietnam-KUL collaboration research work at the Department of Metallurgy and Materials engineering, Katholieke Universiteit Leuven, Belgium, 2001.

Period	Name	Programme	Thesis title	Institution	Status
2016	Bichang' a Dennis Ondieki	M.Sc.	Fabrication and Determination of Properties of Woven Sisal Fabric Reinforced Epoxy Composites	Moi University	Graduated in December, 2017
2013	Gideon Rotich	PhD <i>Note that I substantially assisted the candidate as part of collaboration with DHU though not officially appointed as supervisor</i>	Compression fatigue behaviour of 3D braided one-way tube composite	Donghua University, China	Graduated 2015
2011	Gideon Rotich	M.Sc.	Basalt fibre composite laminates	Donghua University, China	Graduated July 2012
2010	Edward Odhong	M.Sc	Recycling of plastic wastes: A material forming approach using extrusion	Moi University	Graduated Dec. 2010
2003	Juxiang Hu	M.Sc.	Low velocity impact of hemp fabric reinforced polypropylene composites	Katholieke Universiteit Leuven, Belgium	Graduated July 2004

Prices Won and General Achievements

1. Participated in writing a joint proposal on Entrepreneurial University between the University of Saarland, Germany and DeKUT, Chuka and Karatina Universities. Proposal was funded in May 2018 to the tune of Euro 600,000 by DAAD.
2. Participated in writing a proposal that won Kes. 15M in 2017 for training at PhD level in Mechanical Engineering at DeKUT under GoK/AFDB project. Proposal written together with Prof. Peter Muchiri and Dr. Bosco Byiringiro
3. Participated in writing a proposal with Moi University that won Kes. 14M from Royal academy of engineering to conduct engineering training at DeKUT, Moi University and Technical University of Kenya (TUK) in 2016. Proposal submitted by Moi University as host and DeKUT and TUK as spoke Universities.
4. Appointed Expert for the selection of a new centre of African Excellence, Kenyan German Centre for Applied Resources Management, DAAD, Kennedyallee 50, 53175, Bonn, Germany, on 27th November, 2015.
5. **Invited** member of the **scientific committee**, International Conference on Structural Nano Composites, July 2-4, 2012 Bedfordshire, United Kingdom (http://www.nanostruc.info/Scientific_Committee.html)
6. **Invited** to give a **key note address**: Failure of Natural Fibre Composites Subjected to Impact, International Symposium on Sustainable Composites, Donghua University, Shanghai, China. 5th to 8th October, 2011.
7. **Organised** an international symposium on the “Revitalisation of the textile industry through research” at Kisumu Hotel, Kenya on 11th and 12th February, 2011.

8. **Participated** in the taskforce appointed by the Ministry of Higher Education, Science and Technology on Accreditation of Engineering Programmes offered at Kenyan Universities in February and March, 2011.
9. **Successfully** wrote a proposal for collaboration between Moi University and Donghua University, Shanghai, China in August 2010. Proposal was approved by the Chinese government and is currently in force.
10. **Wrote** a successful proposal that attracted KSh. 900, 000 from the National Council for Science and Technology in the year 2010.
11. Nominated **International Engineer of the year 2010** by THE International Biographical Centre, Cambridge, England.
12. Nominated **Top 100 Engineers 2009** by the International Biographical Centre, Cambridge, England.
13. **Entered** in the **Marquis Who'sWho in the World**, 26th Edition, 2009.
14. **Principal** researcher in a **KSh. 130 Million Airbus aircraft project**, CSIR, South Africa 2007-8.
15. **Participated** in writing a successful proposal for the revival of Rivatex East Africa Ltd. in 2007.
16. Participated in the writing of a ten-year Kenya/Belgium VLIR Project, value Euro 745,000 (**KSh. 75 million**) per year based at Moi University. Project awarded in 2006.
17. **Top** Belgium PhD student in the Benalux (Belgium, Netherlands and Luxemburg) SAMPE Student Competition, January 2003. Selected to represent Belgium in the SAMPE International Student Paris conference, 29th to 31st March 2003 and the SAMPE Europe International Conference 1st to 3rd April 2003, all fully paid for by SAMPE International.
18. **Won** APOPO VZW PhD Scholarship tenable in Belgium from September 1999 to July 2004.
19. **Won** Commonwealth M.Sc. Scholarship tenable in the United Kingdom from October 1993 to September 1995.
20. **Won** Government of Pakistan B.Sc. Scholarship tenable in Pakistan from August 1984 to February 1989.

Community Service

- 2011 **Patron**, Technology Students Association, Moi University.
 2011 **Patron**, School of Engineering Self Help Welfare group
 2009 **Member**, PTA Executive, Friends School Kamusinga.

Consultancy

- 2013 Training of senior staff of Kenya National Examination Council on Performance management, appraisal and succession planning, North Coast Hotel
 2011 National Consultant on Cotton to Clothing Strategy Revision for Eastern and Southern Africa, **United Nations -International Trade Centre, Geneva**.
 2010 Revitalisation of the manufacturing Industry in Kenya, Ministry of Industrialisation, Nairobi.

Hobbies

Table Tennis, Jogging and general reading.

Referees

Available on request