

DR. FRED A. LISOUZA

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EDUCATIONAL BACKGROUND

Doctor of Philosophy (Chemistry), Maseno University (2021); Advisors: Prof. Okinda P. Owuor and Prof. Joseph O. Lalah

Dissertation Title: *Monitoring and Cancer Risk Assessment of Persistent Organic Pollutants in Nairobi City, Kenya Using Passive Sampling*

Master of Science (Chemistry), Maseno University (2011); Advisors: Prof. Okinda P. Owuor and Prof. Joseph O. Lalah.

Thesis Title: *Indoor levels of polycyclic Aromatic Hydrocarbons (PAHs) from wood burning in rural households in Western Kenya*

Bachelor of Education (Science), Chemistry/Mathematics option, Egerton University (1998)

EMPLOYMENT HISTORY

April 2015 – Current: Lecturer, Department of Pure & Applied Chemistry; Masinde Muliro University of Science & Technology

May 2017 – Dec 2018: Examinations Coordinator, Department of Pure & Applied Chemistry; Masinde Muliro University of Science & Technology.

May 2016 – Sept 2017: Coordinator, Student's Research Projects, Department of Pure & Applied Chemistry, Masinde Muliro University of Science & Technology.

May 2015 – April 2018: Industrial Attachment Coordinator, Department of Pure & Applied Chemistry; Masinde Muliro University of Science & Technology.

Aug 2011 – April 2015: Part-time Lecturer, Department of Pure & Applied Chemistry; Masinde Muliro University of Science & Technology.

Aug 1998 – April 2015: Chemistry/Mathematics teacher and Head of Science Department; Teacher's Service Commission, Kenya.

RESEARCH & FIELD EXPERIENCE

December 5th – 8th, 2017: Presented a research paper at the "TUK – AVH International Workshop on Ecosystem Services: Lake Victoria versus Three Gorges Reservoir (TGR)". 5th – 8th December, 2017, Kisumu Hotel, Kisumu, Kenya

April 2016: Received a PhD research grant of KES. 700,000 from the National Commission for Science, Technology and Innovation (NACOSTI) – Funds disbursed in December, 2017 – April, 2019.

May 2015 – Current: Supervision of Bachelor of Science (Chemistry) students' project work in Chemistry, Department of Pure & Applied Chemistry, Masinde Muliro University of Science & Technology.

April 9th – 12th, 2013: Presented a research paper at the; "Humboldt kolleg 2013 Nairobi" conference, hosted by Technical University of Kenya. Nairobi, Kenya. 9th – 12th, April, 2013, Boma Hotel, Nairobi, Kenya

Jan 2015 – July 2020: PhD (Chemistry) research: Passive sampling of Persistent Organic Pollutants in air and Surface water in Nairobi City, Kenya.

Sept 2007 – Dec 2009: Master of Science (Chemistry) Research work: Indoor levels of polycyclic Aromatic Hydrocarbons (PAHs) from wood burning in rural households in Western Kenya

PUBLICATIONS, BOOK CHAPTER, AND CONFERENCES

Lisouza, F.A., Owuor, P.O., & Lalah, J.O., (2020): Sources, distribution, and risk assessment of organochlorine pesticides in Nairobi City, Kenya. *Journal of Environmental Sciences*, 96, 178–185.

- Lisouza F.A., Owuor O.P., & Lalah, J.O. (2011): Variation in indoor levels of polycyclic aromatic hydrocarbons from burning various biomass types in the traditional grass-roofed households in Western Kenya. *Environmental Pollution*, 159(2011), 1810 – 1815.
- Lisouza F.A., Owuor P.O., & Lalah, J.O. (2013): The fate of PAHs emitted from indoor burning of fuel biomass in poorly ventilated households: A case study in the traditional rural households in Western Kenya. In: Bandeira, G.C. and Meneses, H.E., (2013): Handbook of polycyclic aromatic hydrocarbons: Chemistry, occurrence and Health issues. Nova Publishers Inc., New York. Pp 1 – 44.
- Lisouza, F.A., Lalah, J.O., & Owuor, P.O., (2019): Applications of Active and Passive Sampling Techniques in Environmental Monitoring of Organochlorine Pesticides (OCPs) in Kenya. *IOSR Journal of Applied Chemistry*, 12(6): 55-63.
- Shitandayi, A., Orata, F. & Lisouza, F. (2019): Assessment of Environmental Sources, Levels and Distribution of Polycyclic Aromatic Hydrocarbons within Nzoia Catchment Area in Kenya. *Journal of Environmental Protection*, 10, 772-790.
- Lisouza F.A., Lalah, J.O., & Owuor P.O. (2017): Passive Sampling Techniques: Applications in Water and Air Monitoring in Kenya. Presented at the; “TUK – AVH International Workshop on Ecosystem Services: Lake Victoria versus Three Gorges Reservoir (TGR)”. 5th – 8th December, 2017, Kisumu Hotel, Kisumu, Kenya
- Lisouza F.A., Owuor P.O., Lalah, J.O. & Agripina M. (2016): Accumulation Rates and Patterns of Polynuclear Aromatic Hydrocarbons emitted from indoor biomass fuel combustion on soot deposits. *JSM Chemistry* 4(4): 1034.
- Lisouza F.A., Owuor P.O., & Lalah, J.O. (2013): Relative accumulation levels and patterns of PAHs emitted from Indoor biomass burning in poorly ventilated households of Kenya. Presented at the; “Humboldt kolleg 2013 Nairobi” conference. Nairobi, Kenya. 9th – 12th April (2013)

REFEREES

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| 1) Prof. Philip Okinda Owuor Department of Chemistry, Maseno University Private Bag – 40105, Maseno Tel: +254722789005 owuorpo@africaonline.co.ke | 2) Prof. Joseph O. Lalah Dept. of Geochemistry & Environmental Chemistry, Technical University of Kenya P.O. Box 52428 – 00200, Nairobi Tel: +254723521644 lalahjoseph@yahoo.com | 3) Dr. Danstone Lilechi Baraza Dept. of Pure & Applied Chem. Masinde Muliro University P.O. Box 190 – 50100, Kakamega Tel: +254721985062 dbaraza@mmust.ac.ke |
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