

Paper Submission Form - SAIP2026 Proceedings

SECTIONS A, C, D, AND E MUST BE COMPLETED BY ALL AUTHORS (INCLUDING STUDENTS) WHO SUBMIT PAPERS. SECTION B IS COMPULSORY FOR STUDENTS WHO SUBMIT A MANUSCRIPT.

Section A: Paper Submission Information*

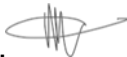
Paper/Abstract ID	430
Paper Title on Indico	X-Ray -Based Characterization of Fossilized Bone and Wood: Insights from XRF and XRD
Submitted Paper Title (if different from Indico)	
Corresponding Author Name & Surname:	Fortune Nndwamato
Corresponding Author Email Address:	Nndwamatofortune44@gmail.com

Section B: For Students & Supervisors†

Supervisor Name & Surname:	SUZAN P BVUMBI
Supervisor Email Address:	suzan.bvumbi@univen.ac.za

For this paper, the supervisor must agree/disagree with the following statements.

	Yes	No
1. I am aware that the above-mentioned paper is being submitted for possible publication in the Proceedings of the SAIP Conference. I am satisfied that the presented work is that of the listed authors. I hereby give consent to the submission	X	
2. I have proof-read the manuscript	X	
3. I am satisfied that the manuscript is written in appropriate English and is sufficiently free of grammatical and spelling errors	X	
4. I am familiar with the required manuscript format ("House Style"), and I am satisfied that this manuscript meets the criteria. I am aware that manuscripts not conforming with House Style may be desk rejected	X	
5. I am satisfied that the scientific content of this manuscript is of sufficient standard for it to be considered for publication in the Proceedings of the South African Institute of Physics Conference Proceedings	X	

Student Name & Surname:Fortune Nndwamato.....Signature:..... Date:07August 2024.....

Supervisor Name & Surname:SUZAN P BVUMBI.....Signature:..... Date:07 AUGUST 2026.....

Section C: Suggested Reviewers*

Obtaining the two referee reports necessary for DHET subsidy is an onerous task.

Please provide the names and contact details of three qualified South African and/or international referees. Referees should have a PhD and expertise in the relevant area of Physics. Do not recommend referees who have co-authored a work with any of the authors on the manuscript within the past five (5) years. Manuscripts without three recommended referees may be subject to desk rejection.

Suggested Reviewers in your Research Field (Both local & international)		
	Reviewer Names & Surname	Reviewer's Email Address(es)
Suggested reviewer #1	Itani Given Madiba	madibagiven@gmail.com madibig@unisa.ac.za itanibravo@tlabs.ac.za
Suggested reviewer #2	Iren Mabuda	mabudaa@cput.ac.za/mabuda04@gmail.com
Suggested reviewer #3	Obed Shirinda	obed.shirinda@spu.ac.za

*: Required section

†: Required section for students

Section D: Declaration of Novelty and Use of AI*

How is this submitted manuscript scientifically novel?

This preliminary study explores the innovative use of radiation-based methods to analyze fossilized bones and wood. By characterizing these paleontological specimens, researchers can gain insights into various fossilization processes, helping to reconstruct ancient environments and climates, understand the lives of past organisms, and speculate on causes of extinction. The study's novelty is examining different fossilization pathways, analyzing geochemical composition through XRF (major oxides), and identifying mineral phases using XRD.

AI was used for language usage and coherence

Please see the Author Guidelines for the AI use policy.

How was AI used in the generation of this manuscript?

AI was used for language usage and coherence.

Section E: Attestation, Plagiarism, and Reviewer Availability*

	Yes
The author attests that the work reported in this manuscript reflects the material presented at the SAIP2026 conference.	X
I am aware that plagiarism detection software <u>WILL</u> be used on my manuscript.	X
By submitting a manuscript to the Proceedings, the author agrees to serve as a referee for the Proceedings. Student authors are encouraged to referee, with guidance and support of a supervisor.	X

*: Required section