

Paper Submission Form - SAIP2025 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 manuscript(s).

Section A: Paper Submission Information

Paper/Abstract ID	563
Paper title	Some roles of physics in climate science and sustainability with examples in Southern Africa
Corresponding Author Name & Surname:	Irvy M.A. Gledhill
Corresponding Author Email Address:	igle.gledhill@wits.ac.za

Section B: For Students & Supervisors

Supervisor Name & Surname:	
Supervisor Email Address:	

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		
2. I have proof-read the manuscript		
3. I am satisfied that the manuscript is written in appropriate English and is sufficiently free of grammatical and spelling errors		
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		
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		

Student Name & Surname: Signature: Date:

Supervisor Name & Surname: Signature: Date:

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	Alan Matthews	matthewsa@ukzn.ac.za
Suggested reviewer #2	Sam Ramaila	samr@uj.ac.za
Suggested reviewer #3	Nithaya Chetty	nithaya.chetty@wits.ac.za

Section D: Declaration of Novelty and Use of AI

How is this submitted manuscript scientifically novel?

A simple systematic way of finding gaps by linking physics to climate and sustainability science is proposed, in preparation for future work.

The intention is to structure the interaction between two extensive fields, physics and climate science.

As a first exercise, for selected cases links have been made between developments in physics or related to physics, and at least one application area in the climate context.

For test purposes a single publication has been used in selected cases.

Data-backed analysis of literature is becoming considerably more widely used, and validation of the results of automated studies is improving. It may be possible to stimulate new and original

physics by enabling visualisation that makes gaps in knowledge more easily identifiable.

For initial demonstration purposes, the fields of physics are taken as those for which IUPAP has designated commissions, affiliated commissions or working groups, and the fields of climate science and sustainability are adopted from the structure of IPCC reports.

Please see the Author Guidelines for the AI use policy.

How was AI used in the generation of this manuscript?

AI was not used.

Section E: Plagiarism

	Yes
I am aware that plagiarism detection software may be used on my manuscript.	Yes