

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	116
Paper title	Listening with Light: Acoustic sensing over live fibre networks using Coherent Optical Transceivers
Corresponding Author Name & Surname:	Dr Mitchell A. Cox
Corresponding Author Email Address:	Mitchell.Cox@wits.ac.za

Section B: For Students & Supervisors

Supervisor Name & Surname:	Dr Mitchell A. Cox
Supervisor Email Address:	Mitchell.Cox@wits.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	✓	
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: Max Brenner Signature: Date: 30/07/2025

Supervisor Name & Surname: Dr Mitchell A. Cox Signature: Date: 30/7/25

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	Professor Tim Gibbon	tim.gibbon@mandela.ac.za
Suggested reviewer #2	Dr Hendrik Jacobus van Heerden	vanheerdenhj@ufs.ac.za
Suggested reviewer #3	Professor MC du plessis	mc.duplessis@mandela.ac.za

Section D: Declaration of Novelty and Use of AI

How is this submitted manuscript scientifically novel?

The submitted manuscript details fibre acoustic sensing using polarisation and phase data extracted from a coherent optical transceiver. While this technology has been used for sub-Hertz seismic and tsunami sensing, its use in human acoustic range (20Hz-20Khz) , as detailed in this paper, is novel.

Please see the Author Guidelines for the AI use policy.

How was AI used in the generation of this manuscript?

AI tools used in the generation of this manuscript were in accordance with the AI use policy as defined in the Author Guidelines document. AI tools were used strictly for improving readability and grammar. All content, figure generation and data analysis presented in this paper was done by the author of this paper without the use of AI tools.

Section E: Plagiarism

	Yes
I am aware that plagiarism detection software may be used on my manuscript.	<input checked="" type="checkbox"/>