



James C Lech is consulting scientist, mitochondriac / quantum biologist. A doctoral candidate in biophysics / sub-molecular medicine, and in pursuit of a second doctorate in law.

In his previous thesis he was contracted by the South African (SA) Govt. to model the potential effects non-native Electromagnetic Field (nnEMF) radiation has on the population.

Recipient of numerous National Awards, several regulatory and legislative bodies have been presented James's research findings. Organs of State have provided favorable reviews in support for further research by Mr. Lech, to be used in the development of new legislative development, improving soldier performance, training and military medical health services. Organs of State have categorised his research as novel, highly in-line with national priorities and strategies.

James has demonstrated in Equality, Magistrate, High Court, and Human Rights Commission, nnEMF having the capacity to effect biological functions.

In his previous thesis an almost Herculean task: first to develop a geospatial model of exposure to various pollutant emissions from sources of nnEMFs of special interest; second to establish a framework under which exposure patterns can be mapped into potential health risks for the public; and third to demonstrate that results warrant a legislative public interest override (PIO) procedure to be established in order to gain systematic information about sources of exposure and measurement data. All these steps are complex and required sufficient knowledge from diverse fields such as | dosimetry | wave propagation physics | geospatial modelling | epidemiology | medicine | risk analysis | legal procedures | finance | and informatics | computer science | climate change.

Mr. Lech presented the use of a HYGEIA model used in forecasting the effects of environmental change on human health and human environment interactions. An innovative approach not yet been applied to the nnEMF issue. It makes use of the MIMES (multiscale integrated models of ecosystem services) framework and dynamic GIS modelling.

To date, the research has presented evidence of a new problem space in South Africa qualifying it as a legislative Public Interest Override of 'substances released into the environment' and 'public safety or environmental risk'.

INTERESTS:

- Host of SuperDads broadcast on Niche Radio & RadioWorldWide, and a regular guest on CapeTalk AM and ChaiFM.
- Child brain development, neurodegenerative and autoimmune diseases.
- Chronobiology. Design and implementation of protocols to help improve biological performance Personal training and physical rehabilitation. James enjoys learning and developing innovative means of aiding to overcome physical obstacles.
- Renewable Energy, Green Building and Building Biology solutions.
- Human rights Advocate. Focusing on Unfair Discrimination and Inequality against persons with disabilities.

AWARDS:

- National Research Foundation - NUFFIC Doctoral Award (2018)
- Golden Key Honour Society International Academic Achievement (2018)
- National Research Foundation Innovation Award (2016)
- DAAD and National Research Foundation Award (2016)
- Konrad Kulesza Award (2016)
- BSG Top Honors Information Systems Development Project (2007)
- Toastmasters International Impromptu Speaking (2006)
- Microsoft Project Firefly National Finalist in Systems Development (2006)
- South African Institute for Aquatic Biodiversity - Sys Dev (2006)
- Microsoft Project Firefly National Finalist in Systems Development (2005)
- Top Systems Development Project (2005)
- Top Final Year Information Systems Student (2005)
- Top Final Year Geography Dissertation (2005)
- Brightest Young Minds South Africa (2005)

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Reviews by Organs of State



James Lech's research has been reviewed by multiple organs of State: Dept. of Health, Dept. of Justice and Constitutional Development, National Assembly of Parliament - MP, The Advertising Standards Authority of South Africa, Rhodes University, UNISA, National Research Foundation - Peer Review Committee, and Dept. of Defence - SA Military Health Service, World Health Organization.

The summary extracted comments are as follows: his work is ground-breaking and novel; request assistance in amending existing legislation and or aid development in drafting new legislation; sets a scientific standard for assessing the seriousness of the environmental impact; presents the benefit of a more rigorous and fact based standard to assist in achieving transparent and accountable government in South Africa; highly aligned with national priorities; highly aligned with national strategies; requested to aid in improving soldier performance, training and military medical health services.

A full list of bodies the research has been presented to, and bodies that have requested the research findings can be found at <http://jameslech.co.za/presentations/>

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