

Presentation Title: An Electromagnetic Field radiation HYGEIA model analysis of the Brain
Presenter: James C. Lech, MSc. candidate of Rhodes University, Department of Information Systems.

Contained within the Climate Change Framework, research using the Scientific-Technical analysis identified that certain population groups have a vulnerability to low intensity Electromagnetic Field (EMF) radiation. Increasingly, EMF radiation dosimetry scientific views and models suggest that even a tiny increase in the incidence of diseases resulting from exposure to EMF radiation could have broad implications for public health, social accounting and the economy.

The public health safety recommendations, standards and guidelines regarding the exposition to EMF radiation, differs considerably depending on the organization or body which publishes it. The general contention is that EMF radiation dosimetry model safety limits and reference levels can be organized into two categories. Short-Term Exposure Paradigm (STEP) and Long-Term Cumulative Exposure Paradigm (LTCEP).

The research developed and executed demonstration runs of an EMF radiation HYGEIA Framework and Model. The forecast HYGEIA model outputs identified EMF radiation exposure public health violations in South Africa (SA).

The EMF radiation HYGEIA Framework constructed a public interest based on SA case law and State reports related to EMF radiation exposure in the public domain. The Framework research outputs revealed low intensity EMF radiation exposure having the capacity to cause abnormal brain functioning and neurological impairment.