

# OLWENDO OUKO

## Assistant Lecturer

**B.Sc. Hons (2005)** University of Nairobi,

**M.Sc (Physics) (2008)** University of Nairobi,

**PhD (Physics) (ongoing)** University of Nairobi,

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## Biography

**2006-2008:** Teaching Assistant University of Nairobi.

**2009-June 2009:** Part-time lecturer at Kenya Methodist University.

**2009-2010:** Part-time lecturer at Kenya Polytechnic University College.

**2009-August 2010:** Part-time lecturer University of Nairobi.

## Research interests

Pursuance of research in ionospheric scintillation and TEC activity over the Kenyan Airspace and to develop ionospheric models with modern techniques employed in simulation and modeling in space weather physics with High Performance Computing Applications.

## Courses taught

Mechanics

Electricity and Magnetism

Thermal Physics I&II

Classical mechanics

Nuclear Physics

Structure and Properties of matter

Relativistic Mechanics & Applied Lab Physics I

## Selected Publications:

1. "Mobility of photo-injected carriers in DSSC", (2008) Dissertation for Masters Degree. Available at the postgraduate library University of Nairobi.
2. Olwendo O.J, P. Baki, C. Mito, P. Doherty" Effects of TEC disturbances on satellite tracking over Kenyan Airspace"- Nigeria Journal for Space Research vol. 7. pp 73-85 (2009) <http://www.cbssonline.com/NJSR%20Vol%207.pdf>
3. Olwendo, J.O., Baki, P., Mito, C., Doherty, P., "Elimination of Superimposed Multipath Effects on Scintillations Index on Solar Quiet Ionosphere at Low Latitude Over the Kenyan Airspace from a Lone Positioned SCINDA System," *Proceedings of the 23rd International Technical Meeting of The Satellite Division of the Institute of Navigation (ION GNSS 2010)*, Portland, OR, September 2010, pp. 386-392. [http://www.ion.org/search/view\\_abstract.cfm?jp=p&idno=9165](http://www.ion.org/search/view_abstract.cfm?jp=p&idno=9165)