CURRICULUM VITAE AND SCIENTIFIC WORKS Of Dr. NOUBISSIE Samuel

(PhD in Non-linear Mechanics).

CIVIL AND PROFESSIONAL STATUS:

Date and place of birth: 17 July 1971, Bankondji, Cameroon.

Marital status : Married.

Nationality : Cameroonian

Professional status: Associated Researcher and lecturer

Professional address: University Institute of Technology, University of Dschang, P. O. Box 134 Bandjoun, Cameroon.

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DIPLOMA:

March 2005-March 2006: Postdoctoral Research in Instituto Fisica Teorica(IFT)-UNESP, Sao Paulo, Brazil. (TWAS-CNPQ Grant)

1999-2004: **PhD** in Non-linear Mechanics, *University of Yaoundé I, Cameroon*.

1998-1999: **First Year Doctorate Degree** « D.E.A » *University of Yaoundé I, Cameroon.*

1996-1998: **Master's** Degree Diploma of Physics, Department of Physics, Faculty of Sciences, *University of Yaoundé I*, Cameroon.

1991-1996: **Bachelor's** Degree Diploma of Physics, Department of Physics, Faculty of Sciences, *University of Yaoundé I*, Cameroon.

1990-1991: **G.C.E advanced level,** Government Secondary school Douala, Cameroon.

TEACHING EXPERIENCE:

- Numerical methods-First year masters degree course
- Physics laboratory works-First level course
- Tutorial-First and second level course

FIELD OF RESEARCH AND SCIENTIFIC DISSERTATIONS:

*Field of research:

Non-Linear Science with applications in biophysics and environment.

*Topics of research:

- Dynamics of blood waves propagation in arteries
- Dynamics of sand dunes in desert
- Soliton propagation in non linear electrical transmission lines
- Propagation of influx nerve in neurones

*Scientific Dissertations:

S. Noubissie ***"*** *Dynamics of linear and nonlinear waves in elastic tubes with localized and progressive deformations and on deformable surface: applications in biomechanics and in environment* ***"*** , **PhD** Dissertation of Physics, *University of Yaoundé I ,* March 2004, *Cameroon.*

S**. Noubissie**, *" Modelling of Particle diffusion in the atmosphere "* Dissertation of **Master's** Degree Diploma of Physics, Department of Physics, Faculty of Sciences, *University of* Yaounde I, February 1998, Cameroon.

PARTICIPATION OF SEMINARS, SCHOOLS OR CONFERENCES:

1- Workshop on **Mathematical modeling and Numerical simulations in environment**, support by the Abdus Salam ICTP: Burkina Faso, 1999.

2- Fourth Edouard Bouchet-Abdus Salam Institute international conference (EBASI): Cotonou- Benin, 2001

3- University Pedagogy Week workshop on "**Necessity, Objectives, and Practice**" in University of Yaoundé I organised by the vice chancellor of the university, Yaoundé-Cameroon, February 13 – 14, 2002:.

4- COPROMATH 3, Workshop on **Contemporary Problems in Mathematical Physics**, November 01-07, 2003, Cotonou, Bénin Republic.

5- Workshop on ***Modeling in interdisciplinary Science***: Biological, Geophysical and related Phenomena, Paraty, Rio de Janeiro, Brazil (2005).

6- Workshop em ***Equações diferenciais parciais***: Teoria, computação e aplicações, Rio de Janeiro, Brasil (2005).

7- Seminar on *Blood Waves*: ***Soliton theory on Biomechanics***, Sao Jose de Campos, Brazil (2006).

PUBLICATIONS IN INTERNATIONAL PHYSICS JOURNALS AND COMMUNICATIONS:

2003

1-**S. Noubissié** and P. Woafo, '' *Dynamics of solitary blood waves in arteries with prostheses*'', Physical Review E **67**, 041911 (2003). Selected by the American Physical Society like one of the 10 best papers of June 2003 (see: The newsletter of the division of Biological Physicist of the American Physical Society, Vol 3, N° 2 June 2003).

2004

1- **Samuel Noubissié** and Paul Woafo, " Influence *of diseases and arterial prostheses on solitary blood waves*", Proceedings of the third international workshop on comtemporary Problems in mathematical physics. World Scientific, Singapore (2004).

2-**S. Noubissié** and P. Woafo, '' *Dynamics of solitary waves through taper-thin elastic tube with localized deformation*'', Physica Scripta.**69**, 249 (2004).

3- H. Keubou Nguena, **S. Noubissié** and P. Woafo, '' *Waves amplification in non linear transmission lines using negative non linear resistances*'' Journal of Physical Society of Japan **73**,1147 (2004).

2005

1-**Samuel Noubissié** and Paul Woafo, ''*Dynamics of solitary waves over an erodible surface*'', Physica A, **345**, 9 (2005).

2007

1- R. Ntchantcho Tchouya, **S. Noubissié** and P. Woafo**,** Communication in Nonlinear Science and Numerical Simulation **12** (2007) 1572-1583.

2- R. A. Kraenkel, **S. Noubissié** and P. Woafo, " *A mathematical model for waves propagation in elastic tubes with inhomogeneities: Application to blood waves propagation* " Physica D 236 (2007) 131-140**.**

3- **S. Noubissié**, R. A. Kraenkel and P. Woafo, " *Disturbance and repair of solitary waves in blood vessels with aneurysm*" Comm. Nonl. Sc. Num. Simul. **(in press).**

Communications

1- **Communication 1 :** entitled ''*Dynamics of sand dunes in deserts*'' presented by **S. Noubissié** at the Seminar on **Mathematical modelling and numerical simulation in environment**, Ouagadougou, Burkina-Faso, (1999).

2- **Communication 2 :** entitled 'Waves in heteregeneous arteries'' presented by **S. Noubissié** at the Workshop on **Waves in fluids**, Sao Paulo, Brazil, (2006).

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- Excellent French
- Average English
- Average Portuguese

COLLABORATORS

- Prof Paul Woafo, University of Yaounde I, Cameroon.
- Prof Roberto André Kraenkel**,** Instituto do Fisica Teorica (IFT-UNESP), Brazil
- Prof. Miguel MANNA, Laboratoire de Physique Théorique et Astroparticules, Université Montpellier II-Sciences et Tecnhique du Languedoc, France