

CIRRICULUM VITAE

CIVIL STATUS AND ADDRESS

NAME: **NDEMANOU Buris Peggy**

Born on the 23 February 1986 at Douala,
Cameroon
Cameroonian, unmarried without child
Laboratory of Modelling and Simulation in
Engineering, Biomimetics and Prototypes
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EDUCATION

2013- until now: Ph.D. student in the Department of Physics, Faculty of Science, University of Yaoundé I, Cameroon. Option: **Modelling and simulation in engineering.**

2010- 2012: Master's Degree in Physics DEGREE "MASTER" « **Contrôle magnéto-rhéologique d'une plaque soumise à excitation sismique**», Department of Physics, Faculty of Science, University of Yaoundé I, Cameroon. Option: Mechatronics and bio-engineering. Grade: **very Good.**

2007–2010: Bachelor's Degree Diploma of Physics, Department of Physics, Faculty of Science, University of Yaoundé I, Cameroon. Grade: **Fairly Good.**

LANGUAGES

French oral: Good written: Good

English oral: average written: average

KNOWLWDGE GENERAL

NUMERICAL METHODS

- Finite differences methods and stability of discretization scheme
- Methods of Lines or Semi-discretization scheme.
- Numerical integral equations.
- Ordinary differential equations
- Stochastic Differential equations

ELASTICITY AND PLASTICITY

- Elastoplastic problems, equilibrium conditions of Beltrami, equilibrium, conditions of Lamé and Clapeyron.
- Statics of the Beam
- Linear-Nonlinear dynamics of the Beam (Euler-Bernoulli and Timoshenko) and Plates (Von Kármán)
- Dimensioning of the structures

DYNAMICAL SYSTEMS AND CHAOS

- Conservative and non conservative systems.
- Notion of bifurcation
- Lyapunov exponents, bifurcation diagram, Poincaré section, Fourier spectra

FIELD OF RESEARCH

Non-linear dynamics, passive, active and semi-active control of vibration, numerical method of physical systems, linear-nonlinear dynamics and control of beam (Euler-Bernoulli, Timoshenko)

INFORMATIC KNOWLEDGE

Languages

Fortran, Matlab, Maple, Proteus, Mathematical

Operating system

LinuxMint, Windows xp, Windows 7, Windows 8

Other applications

Firefox, Mozilla, internet explorer, Google chrome, Sketch Up, Gnuplot

SEMINARS-CONFERENCE

- **December 2012 Yaounde – Cameroon: 4^e Meeting EG@** upon Formation Research – Innovation – Development.

- **December 2011 Yaounde –Cameroon:** International Conference de la Cameroonian Physics Society upon: ‘**Low cost high physics and appropriate solution to real life problems in developing countries**’.

AFFILIATION

Member of the Cameroon Physical Society (CPS)

COLLABORATORS AND REFERENCES

•**Prof WOAFO Paul**, University of Yaounde I, Cameroon, Department of Physics, "Laboratory of Modelling and Simulation in Engineering, Biomimetics and Prototypes", pwoafo1@yahoo.fr

• **Dr NANA Nbandjo**, University of Yaounde I, Cameroon, Department of Physics, "Laboratory of Modelling and Simulation in Engineering, Biomimetics and Prototypes", nananbandjo@yahoo.com

HOBBY

Sport (Football, Taekwondo, Gymnastics)
Dance, Cinema, Musics