CURRICULUM VITAE

DJUIDJE KENMOE GERMAINE, Ph.D.

1. PERSONAL DATA

1.1 NAME: Germaine DJUIDJE KENMOE

1.2 BIRTH DATE AND NATIONALITY: Birth date: August 02, 1973 **Nationality:** Cameroonian

1.3 SEX AND MARITAL STATUS:

Female, married with ALOYEM KAYE Claude Vidal on January 2001, 05 Children

1.4 ADDRESS:

Department Of Physics Faculty of Science University of Yaounde 1 P.O. Box 812 Yaounde, Cameroon Phone: +237 6 99 73 44 36 / +237 6 78 64 51 46 E-Mail: kdjuidje@yahoo.fr

1.5 EDUCATION

-Ph/D., University of Yaounde 1, Cameroon, 2007
Thesis topic: Models for the study of the nanotribology: friction and stick-slip phenomena Thesis advisers: Prof. Timoleon Crepin KOFANE
-Second Grade Professor Diploma of Secondary Education (DIPES II), University of Yaounde 1, Higher teacher's *Training College, University of Yaounde 1, Cameroon, 2001*-DEA, University of Yaounde 1, Cameroon, 2000
-Master's degree Diploma of Physics, *University* of Yaoundé I, Cameroon, 1998.
-Bachelor in Physics, University of Yaounde 1, Cameroon, 1995

1.6 PROFESSIONAL EMPLOYMENT

2016-until now : Associate Professor, University of Yaounde I, Department of Physics, Cameroon.

2010-2015 : Senior lecturer, University of Yaounde I, Department of Physics, Cameroon.
2008-2009 : Assistant lecture, University of Yaounde I, Department of Physics, Cameroon.
2007-2008: Part-time lecturer, IUT Fotso-Victor, University of Dschang, Cameroon.
2001-2007: Teacher of Physical Sciences at Government High School, Bayangam, Cameroon.
1999-2000 : Teaching Assistant, University of Yaounde I, Department of Physics, Cameroon.

1.7-RESEARC INTERESTS

Friction and stick-slip phenomena

- Non-linear dynamics and Chaos
- Stochastic processes
- Polymer brushes

1.8 REFERENCES

- Prof. Dr. Timoleon Crepin KOFANE, Department Of Physics, Faculty of Science, University of Yaounde 1, P.O. Box 812 Yaounde, Cameroon, e-mail: tckofane@yahoo.com - Prof. Dr. Aurelien KENFACK JIOTSA, Department Of Physics, *Higher Teacher's Training College*, *University of Yaounde 1* P.O. Box 47 Yaounde, Cameroon. email: kenfack@yahoo.com

- Prof. Dr. Martin H. MÜSER, Jülich Supercomputing Centre Institute for Advanced Simulation FZ Jülich, P.O. Box 52425 Jülich, Germany, e-mail: <u>m.mueser@fz-juelich.de</u> -Prof. Dr. Nicola Manini, Professor, University of Milan, Via Celoria 16 - 20133 Milano – ITALY e-mail: nicola.manini@fisica.unimi.it

2. COURSES TAUGHT AND OTHER SERVICES PROVIDED

2.1 COURSES TAUGHT

Classical Mechanics L1 (2008-until now)
Quantum Mechanics (exercises) L3 (2010-2015)
Electrocinetics L1 (2015-until now)
Acoustic and Dynamics of Continous Systems M1 (2008-until now)
Pratical Physics L1 (2010-2015) in charge of organizing of the pratical courses
Pratical Physics L2 (2010-2015)
Pratical Physics L3 (2014-2016)
Electrostatics (exercises) L1 (2010-2015)

2.2 SUPERVISION OF MASTER THESES

I have supervised master's students

2.3 SUPERVISION OF Ph.D. Students

student: DJIHA TCHAPTCHET Eric (co-supervision with Prof. T.C. KOFANE)
 subject of the thesis: "*Thermal effect on atomic friction*", Defence : on going
 student: TAKOUTSING Cédric Simplice (co-supervision with Prof. T.C. KOFANE)
 subject of the thesis: "*Angular dependence of atomic friction*", Defence : on going
 student: WADOP NGOUONGO Yannick Joël (co-supervision with Prof. T.C. KOFANE)
 subject of the thesis: "*stochastic resonance processes*" Defence : on going
 student: FOPOSSI MBEMMO André Marie (co-supervision with Prof. T.C. KOFANE)
 subject of the thesis: "*Transport and Diffusion Phenomena*", Defence : on going
 student:Carine Feuzing Kamkui
 (co-supervision with Prof. T.C. KOFANE)
 subject of the thesis: "*Superlubricity in incommensurate systems*", Defence : on going
 student: Nelly Ariane DONFACK TSAGNI
 subject of the thesis: "*Anomalous transport and diffusion in two-dimensional channel*", Defence : on going

2.4 ADMINISTRATIVE SERVICES

-Members of the specialized scientific commissions of the consultative committee of university institutions in Cameroon since 2017

- vice-president of the examination board in Bachelor degree Level1 since 2017

- vice-president of the examination board in Master degree 2015-2017

3.PUBLICATIONS

3.1. PUBLICATIONS IN REFEREED JOURNALS (with editorial board)

17- E.DjihaTchaptchet, G.Djuidjé Kenmoé and T. C. Kofané, *Effect of substrate shape on friction regimes and on tip jump probability in atomic scale friction*. Journal of Tribology **140** (2018) 031606-1,8

16- A. M. Fopossi Mbemmo, G. Djuidjé Kenmoé and T. C. Kofané, *Normal and anomalous transport phenomena in two-dimensional NaCl, MoS2 and honeycomb surfaces. Physica A* **496** (2018) 1–8

15- C.S. Takoutsing, G. Djuidjé Kenmoé and T.C. Kofané, Effects of anisotropy and substrste shape on atomic friction force in two-dimensional model. Tribol. Lett. 67 107(2017)
14-A.M. Fopossi Mbemmo, G. Djuidjé Kenmoé and T. C. Kofané, Shape Potential Effects on Transport and Diffusion Phenomena. Fluctuation and Noise Letters 16 1750011(2017)
13-Y. J. Wadop Ngouongo, G. Djuidjé Kenmoé, T. C. Kofané, Effect of coupling on

stochastic resonance and stochastic antiresonance **processes** in a unidirectionally *N*-coupled systems in periodic sinusoidal potential. Physica A **472** 25–31, (2017).

12- A.M. Fopossi Mbemmo, **G. Djuidjé Kenmoé** and <u>T. C. Kofané</u>, *Anomalous transport* and diffusion phenomena induced by biharmonic forces in deformable potential system. *Eur. Phys. J. B*, **89** 211(2016)

11- G. Djuidjé Kenmoé, Y. J. Wadop Ngouongo and T. C. Kofané, Effect of the potential shape on the Stochastic Resonance Processes. J. Stat. Phys, 161, pp 475-485 (2015)
10- E. Djiha Tchaptchet., G. Djuidjé Kenmoé, Velocity and forced excitation effects on atomic friction with deformable substrate. Nonlinear Dynamics, 82, pp 961-969 (2015)
9- Paul Ndy Von Kluge, Djuidjé Kenmoé Germaine, Kofané Timoléon Crépin, Dry friction with various frictions laws: from waved modulated orbit to stick-slip modulated. Modern

Mechanical Engineering 5 28-40 (2015)

8-Sissi de Beer, **G. Djuidjé Kenmoé** and Martin H. Müser, *On the friction and adhesion hysteresis between polymer brushes attached to curved surfaces: Rate and solvation effects.* Friction **3** 148-160 (2015).

7- G. Djuidjé Kenmoé, C.S. Takoutsing and T.C. Kofané, Angular dependence of atomic friction with deformable substrate. Eur. Phys. J. B 88 (1)21, (2015)

6- G. Djuidje Kenmoe, E. Djiha Tchaptchet and T. C. Kofane, Thermal effect on atomic friction with deformable substrate. Tribol. Lett. **55** 533-542 (2014)

5- *M. Motchongom-Tingue*, *G. Djuidjé Kenmoé* and *T.C.Kofané*, Smart dampers control in a Remoissenet-Peyrard substrate potential. Nonlinear Dynamics **69** 379-389 (2012).

4- *M*. *Motchongom-Tingue*, **G**. *Djuidjé Kenmoé* and T.C.Kofané, Stick-slip motion and static friction in a nonlinear deformable substrate potential. Tribol. Lett. **43** 65-72 (2011)

3- *G. Djuidjé Kenmoé*, A. Kenfack Jiotsa, T.C. Kofané, Nonlinear spring model for frictional stick-slip motion. *Eur. Phys. J. B* **70**, 353-361(2009).

2-G. Djuidjé Kenmoé, T.C. Kofané, Frictional stick-slip dynamics in a nonsinusoidal Remoissenet-Peyrard potential. Eur. Phys. J. B **55**, 347-354(2007).

1- G. Djuidjé Kenmoé, A. Kenfack Jiotsa, T.C. Kofane, Stick-slip motion in a driven twononsinusoidal Remoissenet-Peyrard potential. Physica D 191, 31(2004).

3.2. BOOK AND BOOK CHAPTER

-G. Djuidjé Kenmoé, Frictional stick-slip phenomena, Lambert Academic Publishing ISBN 978-3-8443-0973-7, (2011)

- *Djuidjé, K. G.,* Kofané, T. C., Frictional stick-slip dynamics in a deformable potential. In Bhushan, B. (ed.), Scanning Probe Microscopy in Nanoscience and Nanotechnology, Vol. 2, Springer-Verlag, Heidelberg, 533-549 (2011)

4. OTHER PROFESSIONAL ACTIVITIES

4.1 AWARDS AND FELLOWSHIPS

4- 2018 OWSD-Elsevier Foundation Awards Early-Career Women Scientists in the Developing World.
3-Special Excellence Academic Award of the Higher Education Ministry, Cameroon (2015)
2-TWAS-DFG Cooperation Visit Award, Germany (2013)
1-Short visit research Award, ICTP-Italy (2012)

4.2. VISITING POSITIONS

-Visit research at the Institute for Advanced Simulation, Jülich Supercomputing Centre, Germany 23/05/2013 to 22/08/2013, TWAS-DFG Cooperation Visit Award, under the supervision of Prof. M. Müser. -Short visit research at the Condensed Matter Section, ICTP-Italy 05/08/2012 to 05/09/2012

4.3. PARTICIPATION IN CONFERENCES AND SCHOOL

8- International Nanotribology Forum, Friction and wear at the nanoscale, 6-10 January, 2014, Bolgatty Palace and Island Resort, Cochin, Kerala, India.
<u>Oral Presentation:</u> Thermal effect on atomic friction with deformable substrate.
7-Conference on Friction and Energy Dissipation in Man-made and Biological Systems
5 - 8 November 2013 ICTP, Trieste – Italy.
<u>Poster:</u> From bottle-brush to conformal-contact sliding: Polymer brush friction in curved systems
6-School on Large Scale Problems in Machine Learning and Workshop on Common Concepts in Machine Learning and Statistical Physics 20 - 31 August 2012 ICTP, Trieste – Italy.
5-International School on Non-linear Dynamics in Complex Systems, 31 October – 11

November 2011, Yaoundé-Republic of Cameroon. Contributed talk: Role of substrate geometry in stick-slip phenomena

4- Joint ICTP-FANAS Conference on Trends in Nanotribology, 12 - 16 October 2011, ICTP, Trieste – Italy.

Poster: Substrate geometry and static friction

3-Third Hands-on Research in Complex Systems School, 02-13 August 2010, Buea-Republic of Cameroon

<u>Poster:</u> Stick-slip dynamics of a particle between two deformable corrugated surfaces **2-** Joint ICTP-FANAS Conference on Trends in Nanotribology, 19 - 24 October 2009, ICTP, Trieste – Italy.

<u>Poster:</u> Friction and Stick-slip Phenomena in a Nonsinusoidal Remoissenet-Peyrard Potential

1-Outils informatiques dans la recherche en systèmes dynamiques complexes CIMPA-UNSA-CNRS-UNESCO-CAMEROUN, 5-19 avril 1999, Yaoundé (Cameroun)

4. MEMBERSHIP AND ACTICITIES IN ASSOCIATIONS

4.1. PROFESSIONAL ASSOCIATIONS

-Association pour la Promotion Scientifique de l'Afrique (APSA), Member -African Network for Solar Energy (ANSOLE), Member -Cameroon Physical Society (CPS), communication service.

4.2. COMMUNITY SERVICES

-APLES (VICE-TREASURER) -Evangelical church of ESSESSALAKOK

5. LANGUAGES

-Fluent in French -English: reading (very good); writing (very good); speaking (good)

7. COMPUTING EXPERIENCE

-Current OSs: linux, MS Windows

-Programming: c++, fortran, Mathematica, Matlab, python, unix shell

-Editors/utilities: latex, xmgrace, gimp, libreoffice