

CURRICULUM VITAE

Pr. SALAH GUENFOUD

Department of Mechanical Engineering
University of Guelma
P.O. Box: 401, Guelma 24000, Algeria.
Tel: +1-438-388-7381
: +213.6.64.92.09.36

E-mail : guenfoud.salah@univ-guelma.dz
structmec@gmail.com
znaio@yahoo.fr



Google Scholar profile link: <https://scholar.google.fr/citations?hl=fr&user=VVg5AImAAAAJ>

ResearchGate Profile Link: https://www.researchgate.net/profile/S_Guenfoud

SCOPUS ID: **24337898900**

<http://orcid.org/0000-0002-3856-4624>

CIVIL STATUS

Last name : GUENFOUD
First name : SALAH
Date of birth : 22.05.1972
Place of birth : Markounda (Algeria)
Family status : Married

EDUCATION AND DEGREES

1998/2002: Diploma of PhD in Structural Mechanics. Polytechnic Academy of Belarus, (currently The Belarusian National Technical University).
1992/1995: Engineer of state in Civil Engineering (B. sc. of engineering diploma in Civil Engineering), University of Annaba Algeria. Ranked first in my engineering promotion.
1990/1992: Joint base of technological science (Engineering preparatory years), University of Batna Algeria.
1987/1990: High school education degree, College of N'gaous Batna.
1978/1987: Primary School in Province of Batna.

TEACHING COURSES

Numerical Methods for undergraduate and graduate students;
Programming (Fortran and Mathematica) for undergraduate and graduate students;
Finite Element Method for undergraduate and graduate students;
Mechanics of Materials for undergraduate students;
Business Management for undergraduate students;
Operational research (Optimization) for undergraduate students;
Metal Frame and Elevating Lifting Devices for undergraduate students.

SUPERVISOR OF THE FOLLOWING REPORTS

Topic: "*Calculation of the Rectangular Plates by the Finite Differences Method*" Engineering Diploma in Mechanical Engineering. June 2004.

Topic: "*Dynamic Calculation of a Beam Resting on an Elastic Foundation of Boussinesq's type*" Engineering Diploma in Mechanical Engineering. June 2005.

Topic: "*Dynamic Calculation of a Rectangular Plates Resting on an Elastic Foundation of Winkler's and Boussinesq's type*" Diploma of Magister in Mechanical Engineering. July 2006.

Topic: "*Static Calculation of a Beam Resting on an Elastic Foundation taking Into-account the Friction Forces in the Contact Zoning*" Engineering Diploma in Mechanical Engineering. June 2007.

Topic: "*Determination of the Natural Frequencies and Mode Shapes for Multispan Beam*" Engineering Diploma in Mechanical Engineering. June 2008.

Topic: "*Application of the finite differences method in the discretization and the calculation of rectangular plates*" Engineering Diploma in Mechanical Engineering. June 2009.

Topic: "*Design of the circular plates by the finite differences method*" Diploma of Master in Mechanical Engineering. June 2010.

Topic: "*Study of dumping in the structures*" Diploma of Master in Mechanical Engineering. June 2013.

Topic: "*Dynamical Study of a rectangular plates resting on elastic foundation with inertial properties*" Diploma of Master in Mechanical Engineering. June 2014.

Topic: "*Dynamical Study of a circular plates resting on elastic foundation with distributives properties*" Diploma of Master in Mechanical Engineering. June 2015.

Topic: "Application of the least squares method in the processing of experimental data" Diploma of Master in Mechanical Engineering. June 2018.

Topic: "Study of the dynamic behavior of a multi-span bridge during the passage of convoys" Diploma of Doctorate in Mechanical Engineering. Ongoing.

Topic: "Dynamic analysis of rectangular plates resting on elastic foundation of inertial properties" Diploma of Doctorate in Mechanical Engineering. Ongoing.

REVIEWER OF THE FOLLOWING PAPERS

- Manuscript number: IJSS-D-11-0059. International Journal of Solids and Structures (ELSEVIER).
- Manuscript number: WAMOT-D-11-00098. Wave Motion (ELSEVIER).
- Manuscript number: IJSS-D-11-00929. International Journal of Solids and Structures (ELSEVIER).
- Manuscript number: IJSS-D-12-00427. International Journal of Solids and Structures (ELSEVIER).

- Manuscript number: IJSS-D-17-00100R2. International Journal of Solids and Structures (ELSEVIER)

- Manuscript number: APM-D-19-00191R1. Applied Mathematical Modelling (ELSEVIER)

FIELDS OF INTEREST

Modelling of the structures with any boundary conditions in static and dynamic;

Contact problems;

Study of the bridges under moving vehicles;

Modeling of structures of composite materials;

Inverse problems.

COMPUTING

Programming languages: FORTRAN, Mathematica, Turbo-Pascal, Matlab.

PUBLICATIONS AND REPORTS OF THE LAST YEARS

1. **S. Guenfoud**, M.N. Amrane, S.V. Bosakov, N. Ouelaa. Semi-analytical evaluation of integral forms associated with Lamb's problem. *Soil Dynamics and Earthquake Engineering* 29 (2009) 438-443, (ELSEVIER).
2. **S. Guenfoud**, S.V. Bosakov, D.F. Laefer. Dynamic analysis of a beam resting on an elastic half-space with inertial properties. *Soil Dynamics and Earthquake Engineering* 29 (2009) 1198-1207, (ELSEVIER).
3. **S. Guenfoud**, S.V. Bosakov, D.F. Laefer. A Ritz's method based solution for the contact problem of a deformable rectangular plate on an elastic quarter-space. *International Journal of Solids and Structures* 47 (2010) 1822-1829, (ELSEVIER).
4. S. Guenfoud, S.V. Bosakov, D.F. Laefer. "Dynamic analysis of a plate resting on elastic half-space with distributive properties". The 2014 world Congress on Advances in Civil, Environmental and Material Research (ACEM2014). Busan, Korea, August 24-28, 2014.
5. Y. Fisli, A. Rezaiguia, **S. Guenfoud**, D.F. Laefer, M. Kaddeche. Dynamic amplification of an orthotropic, multi span bridge deck under moving truck with tandem axles. *Design and Modeling of Mechanical Systems*. 01 (2015) 523-535, (SPRINGER).
6. A. Rezaiguia, N. Ouelaa, D.F. Laefer, **S. Guenfoud**. Dynamic amplification of a multi-span, continuous orthotropic bridge deck under vehicular movement. *Engineering Structures* 10 (2015) 718-730, (ELSEVIER).
7. Bosakov S.V., **Guenfoud S.** Nonaxisymmetric contact problem for circular plate. *International Applied Mechanics* (2017), Vol. 53, No. 5, 568-573 (Springer).

PROFESSIONAL EXPERIENCE

Oct 2002-Oct 2004: Assistant Professor in Guelma University, Algeria. Department of Mechanical Engineering.

Oct 2004-Dec 2009: Associate Professor in Guelma University, Algeria. Department of Mechanical Engineering.

Dec 2009 until today: Professor in Guelma University, Algeria. Department of Mechanical Engineering.

Jan 2010-Jan 2014: Department Scientific Committee's President.

Apr 2013 till now: Head of a research team at a research laboratory in Guelma University

LANGUAGES

Arabic : Fluently;
French : Fluently;
Russian : Fluently;
English : Good.

ADVANCED INTERNSHIP ABROAD

- ✓ October 2018: was held at the Ecole de Technologie Supérieure de Montreal (ETS), (Canada);
- ✓ December 2017: Participation in the 3rd Conference on Advances in Mechanical Engineering (ICAME2017), was held in Istanbul, (Turkey);
- ✓ September 2015: was held at the Université du Québec à Trois-Rivières UQTR, (Canada);
- ✓ August 2014: Participation in the 2014 World Congress on Advances in Coupled Systems Mechanics (ACSM 14), was held in Busan, (Korea);
- ✓ December 2013: was held at the Belarusian National Technical University (Belarus);
- ✓ March 2012: was held at the Belarusian National Technical University (Belarus);
- ✓ February 2011: was held at the University College Dublin (Ireland);
- ✓ November 2009: was held at the University College Dublin (Ireland);
- ✓ July 2008: was held at the Belarusian National Technical University (Belarus);
- ✓ July 2006: was held at the Belarusian National Technical University (Belarus);
- ✓ July 2004: was held at the Belarusian National Technical University (Belarus);

INTERESTS

Movies, Sport, Reading, Music, politics, Traveling.

OTHERS

Member in the followings fields of research:

- Dynamic study of the structures resting on ground. Laboratory of Applied Mechanic of New Materials, University of Guelma, Algeria.
- Conditional maintenance of rotating machines using wavelet analysis. Application to the early detection of bearings and gears defects. Mechanic and Structures Laboratory, University of Guelma, Algeria.
- Localization of vibroacoustic sources using the inverse problem resolution. Application for the cylindrical shells filled by a fluid. . Mechanic and Structures Laboratory, University of Guelma, Algeria.
- Dynamic behavior of deck slabs of highway bridges under the load of traffic. Laboratory of Applied Mechanic of New Materials, University of Guelma, Algeria.

Member and president of jury in the defense of tens of PhD theses.

Military service: 1995-1997.