

Brief CV

Name/ Farag A. Soul

Martial State/ Married

Institution/ Elmergib University

Scientific Position/ Professor (Since 4-2014)

Date of birth/ Garapulli 1967

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Qualifications

Degree	Field	Year of award	University
B.SC	Mechanical engineering	1988	Tripoli university, faculty of engineering,(libya)
M.Sc	Metallurgy (metal Forming)	1998	Belgrade university, Faculty of technology and metallurgy,(serbia)
Ph.D	Material processing controlling	2005	Beijing university of aeronautics & astronautic, School of mechanical engineering (China)

Field of interest

- Manufacturing Processes and cutting tool technology
- Thermo-mechanical analysis in welding and it is mitigation techniques
- Applied Mechanics and Stress Analysis
- Formability analysis of metals and alloys
- Surface modification
- Design of mechanical elements
- Residual stress induced by material processing
- Welding technologies and mitigation techniques
- Light alloys

Work Experience

[1988-2007] Technical research centre

- Production Planning (organization of machining operations for Parts)
- Spinning technology process , CNC Programming (Heat Treatment)
- Director of welding and forming Department
- R&D Bureau
- Lecturer at Mech. Eng. Dept. Elmergib university since 2007
- Chair for Many Committee work during employment

Professional Responsibilities

- Assistance in an system research program 1992-1995
- Director of welding and heat treatment unit [1998-2002]
- Head of Mechanical Engineering Departments [2008-2010]
- Faculty representative in the university research and consultant bureau [2012-2013]
- Faculty Procurator for Scientific Regulation [2012]
- Dean of Engineering Faculty (Garapulli) [2013 ,2014]
- University Scientific committee member [2015- until present time]
- Head of higher studies in the faculty [2016- up to date]

Teaching Subjects

Stress Analysis (Mechanics of Mat)	Design of Machine Elements
Manufacturing Technologies and Processing	Metal Forming(Bulk&Sheet)
Welding (Processes, Technologies and metallurgy)	Design and manufacturing
Theory of Elasticity	Mechanical Metallurgy
Light Metal and Alloys	Physics of Strength and Plasticity
High Temperature Materials	Cutting Tool Technology
Modelling and Simulation	Automation

Awards and Invitations

- Elmergib University Award for work achievement, 2008.
- Invitation From Cambridge Institute (Selection of 100 Engineers Through the World in the year 2009)
- Invitation from who is who biography (2010)

Conference Session Chairman

- Session Chairman in (Processing of Light Metals) - 7th international conference on physical and numerical simulation for material processing. 16-19 june 2013, **Finland**
- Session Chairman in (Material Processing) -5th International Conference on Aircraft Material April 23-26, 2014, Marakich , **Morroco**. (Material processing Session)

Publications

- 1-** Farag Soul, Endre Romhanjia, "Formability of Al-Mg Sandwich Sheet", International Symposium Light Metals and Composite Materials, 1999, Pp 11-12. **Serbia.**
- 2-** Farag Soul, Zhang yanhua. "Numerical Study of Residual Stress Field During Arc Welding With Trailing Heat Sink", Fluid Structure Interaction and Moving Boundary Problem, Transaction Engineering Science Vol. 84, 2005, Pp. 683-692. [www.witpress.com, ISSN 1743-3509(Online)].
- 3.**Farag Soul, Zhang Yanhua. "Thermo-Mechanical Analysis of Longitudinally Welded Aluminum Alloy Cylinder Using 3D FEM", 5th International Forum on Aluminum Ships. Tokyo, Japan Oct 11-13, 2005, Pp151-156. **Japan.**
- 4.**Farag Soul, Zhang Yanhua. "Numerical Study on Stress Induced Cambering Distortion and Its Mitigation in Welded Titanium Alloy Sheet", Journal of Welding Science & Joining Technology, Vol. 11, Nov. 2006.
- 5-** F. Soul1, et. al. Residual Stress Correlation in Two Different Mitigation Techniques Using FEA, Advanced Materials Research Vols. 83-86 (2010) pp 1254-1261.
- 6-** F. Soul and Z. Yanhua – Numerical Analysis of Stresses and Strains Behaviour in Trailing Heat Sink Mitigation Technique – Materials Science & Technology, Pittsburgh, **USA**, 2005 .
- 7-** F. Soul1 Et Al, Prediction of Temperature and Residual Stress Behavior in Dynamic Cooling Spot Welding Mitigating Technique, 4th International Conference in Material, Process & Structure, **Serbia**, may 2010,
- 8-** F. Soul And M Musbahi, Effect Of Cold Work And Heat Treatment On The Formability Of claded Aluminum Magnisium Alloy, International Conference For Mechanical, Aerospace And Material Engineering, Roma 26-27 Sept. 2012, **Italy**
- 9-** Farag Soul: Development of Predicted Stress and Strain During Conventional and after Mitigation of Welded Aluminium-Manganese Alloy, 7th international conference on physical and numerical simulation for material processing. 16-19 june 2013, **Finland**, published in material research forum.
- 10-** Mostafa Almusbahi and Farag Soul: Analytical study of wind energy for mezda and gariaat city zone, conference of energy 2008.
- 11-** Farag Soul: Prediction of Temperature and Residual Stress Behavior in Longitudinal Welded Al-Alloy Cylinder with Moving Cooling Spot, 5th International Symposium on Aircraft Material April 23-26, 2014, Marakich , **Morroco**

12- Ghassan Elmasry, Mustafa Elmusbahi and Farag Soul: The Effect of Changing the type of Filters on Gas Turbine Parts, The 45th International October Conference on Mining and Metallurgy, 16-19 October 2013; Bor-Serbia.

Book Chapter

R. Kovacevic: Welding Process, **Intech**: © 2012 (**Farag Soul And Hamdy Nada- CHAPTER 10**),), Licensee Intech. This Is An Open Access Chapter

Questionaries'