

CURRICULUM VITAE



Personal Details

Name: Elsayed Abdelfattah Elbadry Ahmed.

Birth Date: August 4th, 1977.

Place of Birth: Sohag, Egypt.

Citizenship: Egyptian.

Gender: Male

Marital Status: Married.

Major Field: Materials and Production Engineering

Special Field: Materials Science and Engineering (Mechanics and Strength of Materials, Characterization and Testing of Materials, FRP, Green Composites, Automotive Composites and Crashworthiness).

Present Occupation: Associate Professor, Mining and Metallurgical Department, Faculty of Engineering, Assiut University, Egypt.

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Education and Employment

- Sep./1995 – June/2000
June/2000
- Sep/2000
- Oct./2001 – June/2002
- July/2002 – July/2004
- July/2004
Sep./2004 – Apr./2010
- Oct./2010 – Sep./2013
- 21th Feb. / 2013
- Jan./2018 – July/2018
- 1- B. Sc. of Mining and Metallurgical Engineering, Assiut University
 - 2- Graduation with a project in (**powder metallurgy**) with a Distinction Degree and Graduated as a **Metallurgical Engineer with very good degree with honor degree (77.54%)(the first student)**.
 - 3- I was appointed as **Demonstrator** at Mining and Metallurgical Engineering Department, Faculty of Engineering, Assiut University (Egypt).
 - 4- **Master courses (passed with 80.8% degree)**
The courses (Advanced Thermodynamics, Advanced Heat and Mass Transfer Processes, Advanced Engineering Mathematics, Advanced Numerical Analysis, Programming (Fortran, Matlab)).
 - 5- **Master Thesis of Engineering in (ON THE CONTINUOUS CASTING PROCESS OF STEEL WITH PARTICULAR ATTENTION TO GRADE TRANSITION)** at Mining and Metallurgical Engineering Department, Faculty of Engineering, Assiut University (Egypt).
 - 6- **Graduated as a Master of Science, M.Sc.**
 - 7- I was appointed as **Assistant lecturer** at Mining and Metallurgical Engineering Department, Faculty of Engineering, Assiut University (Egypt).
 - 8- **PhD student in Advanced Fibro-Science Department, Kyoto Institute of Technology , Kyoto, Japan with the Research subject: (DESIGN, PROCESSING AND CHARACTERIZATION OF JUTE AND PALM NATURAL FIBERS SANDWICH COMPOSITES).**
 - 9- I was appointed as **Assistant Professor** at Mining and Metallurgical Engineering Department, Faculty of Engineering, Assiut University, Egypt.
 - 10- **Post doctoral fellow (Department of Advanced Fibro-Science, Kyoto Institute of Technology, Kyoto, Japan) in a Project entitled “Crashworthiness of hybrid sandwich composite panels reinforced with braided glass fiber rods for side impact vehicle protection”.**

Publications

1- Journal

- 1- Doheim, M.A., **Elbadry, S.A.**, and Abdalla, G.A., “Modeling study of intermixing in continuous slab casting during grade transition”, Journal of Engineering Sciences (Assiut University), Vol.32, No.2, pp.969-991, April 2004 (**Master thesis**).
- 2- **Elsayed A. Elbadry**, Mohamed S. Aly-Hassan, and Hiroyuki Hamada, “Mechanical Properties of Natural Jute Fabric/Jute Mat Fiber Reinforced Polymer Matrix Hybrid Composites,” Advances in Mechanical Engineering, vol. 2012, Article ID 354547, 12 pages, 2012. doi:10.1155/2012/354547.

- 3- **E. Elbadry**, and H. Hamada, “*Impact Properties of Natural Jute Fabric/Jute Mat Fiber Reinforced Polymer Matrix Hybrid Composites*”, Journal of Mechanics Engineering and Automation (JMEA), Vol.2, No. 6, pp. 381-388, 2012.
- 4- **Elsayed Elbadry**, Zhiyuan Zhang, Yuqiu Yang, and Hiroyuki Hamada, “Fracture toughness and notch sensitivity of jute fiber mats reinforced unsaturated polyester matrix composites based on the characteristic distance”, Studies in Science and Technology, Vol. 2, No. 1, 2013.
- 5- Mohamed S. Aly-Hassan, **Elsayed A. Elbadry**, and Hiroyuki Hamada “Agro-Residues: Surface Treatment and Characterization of Date Palm Tree Fiber as Composite Reinforcement,” Journal of Composites, vol. 2014, Article ID 189128, 8 pages, 2014. doi:10.1155/2014/189128.
- 6- **Elsayed A Elbadry**, GA Abdalla, M Aboraia, EA Oraby, “Notch sensitivity of short and 2D plain woven glass fibres reinforced with different polymer matrix composites,” Journal of Reinforced Plastics and Composites, Vol 36, No.15, pp. 1092 – 1098, 2017.
- 7- **Elbadry A Elbadry**, Abdalla GA, Aboraia M, Oraby EA “Effect of Glass Fibers Stacking Sequence on the Mechanical Properties of Glass Fiber/Polyester Composites,” Journal of Material Sciences and Engineering, Vol 7: No. 1, 2018. Doi: 10.4172/2169-0022.1000416.
- 8- Gabriel Y Fortin, **Elsayed A Elbadry** and Hiroyuki Hamada, "Crashworthiness of cardboard panels reinforced with braided glass fiber rods for vehicle side impact protection", Journal of Reinforced Plastics and Composites, Vol. 37(23) 1387–1401, 2018.
- 9- Gabriel Y Fortin, **Elsayed A Elbadry** and Hiroyuki Hamada, " On crushing characteristics of hybrid sandwich aluminum-cardboard panels reinforced with glass fiber composite rods", Science and Engineering of Composite Materials, in Press.
- 10- Gabriel Y. Fortin, **Elsayed A. Elbadry** and Hiroyuki Hamada, “Crashworthiness of Recycled Cardboard Panels Reinforced with Hybrid Columnar Aluminum Tube-GFRP Rods,” Polymer Composites, pp.1-13, 2019, <https://doi.org/10.1002/pc.25282>.

2- International and Domestic Conferences

- 21th-24th Feb./2005
- 1- Doheim, M.A., **Elbadry, S.A.**, and Abdalla, G.A., “Computational parametric study of continuous casting during grade transition with intermixing”, the 9th Mining & Petroleum and metallurgical Engineering Conference , I.D. Met.29, pp.1-16, Cairo university, Cairo, Egypt, 2005 **(Master thesis)**.
- 16th-18th Mar./2011
- 2- **Elsayed A. ELBADRY**, Mohamed S. ALY-HASSAN, and Hiroyuki HAMADA, “Characterization of the impact properties of jute fiber mats reinforced unsaturated polyester matrix composites”, JCCM-2 Symposium Committee (Japan Society for Composite Materials), No.21,Tokyo, Japan.
- 19th -21th Apr./2011
- 3- **Elsayed A. Elbadry**, Mohamed S. Aly-Hassan, and Hiroyuki Hamada, “Tensile and bending properties of jute fiber mat reinforced unsaturated polyester matrix composites produced by a modified hand lay-up method”, Interfacial Symposium on Recent Advancement of Interfacial Materials Science on Composite Materials, , I.D. O-2, Kyoto Institute of Technology, Kyoto, Japan.
- 29thMay- 1th June/2011
- 4- M. S. Aly-Hassan, **E. A. Elbadry**, and H. Hamada, “Processing of sandwich composite structures consisting of woven GFRP skins and a jute mat core by hand lay-up technique” Asia-Europe Symposium on Processing and Properties of Reinforced Polymers, Dresden, Jermany.

- 21th-26th Aug./2011
- 5- **Elsayed A. Elbadry**, Mohamed S. Aly-Hassan, and Hiroyuki Hamada, "Impact properties of jute fiber mats Reinforced unsaturated polyester Matrix Composites", 18th International Conference on Composite Materials, I.D. Th22-1-AF1000, Jeju, Korea.
- 28th-30th Sep./2011
- 6- **E. A. Elbadry**, M. S. Aly-Hassan, and H. Hamada, "Notch sensitivity of jute fiber mat reinforced unsaturated polyester matrix composites" Bioenvironmental polymer Society (BEPS), Vienna, Austria.
- 20th-21th Oct./2011
- 7- **Elsayed A. Elbadry**, Mohamed S. Aly-Hassan, and Hiroyuki Hamada, "Impact Properties of Jute Cloth/Mat Reinforced Unsaturated Polyester Matrix Composites", JSCM Symposium (Japan Society for Composite Materials), pp.97-98, Sendai, Japan.
- 9th-11th Nov./2011
- 8- **Elsayed A. Elbadry**, Mohamed.S. Aly-Hassan, and Hiroyuki Hamada, "Tensile and bending properties of jute fabric/mat reinforced unsaturated polyester matrix composites", 12th Japan International SAMPE Symposium & Exhibition (JISSE 12), I.D. GRN-4, pp.1-6, Tokyo, Japan.
- 11th-17th Nov./2011
- 9- **E. A. Elbadry**, M. S. Aly-Hassan, and H. Hamada, "Tensile and bending properties of jute fiber mat reinforced unsaturated polyester matrix composites fabricated by a modified hand lay-up technique", ASME 2011 International Mechanical Engineering Congress & Exposition (IMECE2011), No. 62409, pp.1-9, Colorado, USA.
- 07th-09th Mar./2012
- 10- **Elsayed ELBADRY**, Mohamed S. ALY-HASSAN, and Hiroyuki HAMADA, "Tensile and bending properties of hybrid jute fabric/glass fabric/jute mat reinforced unsaturated polyester matrix composites", JCCM-3 Symposium Committee (Japan Society for Composite Materials), No 1204, pp. 60-63, Kyoto, Japan.
- 30th July – 1th Aug./2012
- 11- **Elsayed A. Elbadry**, M. S. Aly-Hassan, and H. Hamada, "Notch sensitivity of jute fiber mat reinforced unsaturated polyester matrix composites" Ninth Joint Canada-Japan Workshop on Composites (poster presentation), Kyoto Institute of Technology, Kyoto, Japan.
- 06th-08th Aug /2012
- 12- **Elsayed A. Elbadry**, Mohamed S. Aly-Hassan, and Hiroyuki Hamada, "Mechanical properties and notch sensitivity of hybrid jute fiber mat/jute fabric/glass fabric sandwich composites ", Inteface 21 Conference, I.D. P04, Kyoto Institute of Technology, Kyoto, Japan, August 06-08, 2012.
- 23th-25th Mar./2014
- 13- International Conference for Development and the Environment in the Arab World (As Listener).
- 20th-22th Oct./2014
- 14- **Elsayed A. Elbadry**, " Durability of Jute Mat Fiber (32 Vol.%) Reinforced Unsaturated Polyester Matrix Composites," 12th International Conference on Mining, Petroleum and Metallurgical Engineering (MPM12), REF 09-2014, Suez University, Suez, Egypt, October 20-22, 2014.
- 20th-22th Oct./2014
- 15- **Elsayed A. Elbadry**, " Effect of Surface Scratch on the Impulse Impact Energy of Recycled Natural Jute Fiber Mat Reinforced Polymer Matrix Composites," 12th International Conference on Mining,

- Petroleum and Metallurgical Engineering (MPM12), MET 22-2014 Suez University, Suez, Egypt, October 20-22, 2014.
- 17th -20th Apr./2015 16- **E. A. Elbadry**, " Effect of Hot Water Absorption on the Flexural Properties of Jute Mat Fiber Reinforced Polymer Matrix Composites," 24th International Mining Congress and Exhibition of Turkey (IMCET2015), pp. 1199-1204, April 17-20, 2015.
- 17th-20th Nov./2015 17- **Elsayed A. Elbadry**, " Impulse Impact Properties of Glass Fiber Mats Reinforced Unsaturated Polyester Matrix Composites," The 3rd International Conference of Advanced Applied Sciences (ICAAS III), Hurgada, Egypt, November 17 -20, 2015.
- 4th-6th Apr./2016 18- **Elsayed A. Elbadry**, " Fracture Analysis of notched Sandwich Composites Applying Whitney-Nuismer Mathematical Model," 2nd World Congress and Expo on Nanotechnology& Materials Science, April 04-06, 2016, Dubai, UAE.
- 24th-28th Mar./2017 19- **Elsayed A. Elbadry**, G. A. Abdalla, M.Aboria, " Tension Test of Glass Fiber Reinforced Polyester Composites," First International Engineering Conference on Sustainable Environmental Development, 24-28 March 2017, Sharm El Sheikh, Egypt.
- 7th-10th Nov./2017 20- **Elsayed A. Elbadry**, GA Abdalla, M Aboria, EA Oraby, " Notch Sensitivity of different Glass Fibers Reinforced Polyester and Epoxy Matrix Composites," 4th International Conference on Advanced Sciences (ICAS4), November 7-10, 2017, Hurgada, Egypt.
- 3th- 6th Apr./2018 21- Gabriel Fortin, **Elsayed A. Elbadry**, "Cardboard Panels Reinforced with Braided Glass Fiber Rods for Vehicle Side Impact Protection," 14th Eco-Energy and Materials Science and Engineering Symposium 2018 (EMSES 2018), April 3-6, 2018. Kyoto, Japan (**the best poster Award**).
- 4th- 7th July/2018 22- G.Y. Fortin, **E.A. Elbadry**, and H. Hamada, " Energy Absorption Properties of Braided Glass Fiber Rod-Reinforced Cardboard Panels, " The 12th Canada-Japan Workshop on Composites, July 4-7, 2018, Takayama, Gifu, JAPAN.

Research and Work Experiences

- Fabricating of short natural fiber reinforced polymer composite materials (Green composites); testing and evaluating of testing results by OM (optical microscopy) and SEM (scanning electron microscopy).

- Fabricating of hybrid natural fiber reinforced polymer composite materials (hybrid Green composites); testing and evaluating of testing results by OM (optical microscopy) and SEM (scanning electron microscopy).
- Fabricating of hybrid fiber reinforced polymer composite materials (Glass, Carbon and natural fibers reinforced polymer matrix composites); testing and evaluating of testing results by OM (optical microscopy) and SEM (scanning electron microscopy).
- Open hole tensile testing of the different composites.
- FEM (Finite element method) analysis of open hole tensile test of the composites.
- Good knowledge of manufacturing processes like hand lay-up and compression molding to fabricate the composites.
- Participation in supervision of the graduation project of the graduated students in our department 2013-2014 entitled "Characterization of electro-less plated some steel alloys against corrosion".
- Participation in preparation the law of postgraduate students courses by credit hours system in my department.
- Participation in quality assurance works in my faculty.
- Advisor of the undergraduate students in my department.
- Supervision of the graduation project of the graduated students in our department 2014-2015 entitled "Anodizing of Aluminium and its effect on the hardness and corrosion properties".
- Three postgraduate master students under my supervision.
- Supervision of the graduation project of the graduated students in our department 2015-2016 entitled "Anodizing and colouring of aluminium –magnesium –silicon Alloy (AA6060)".
- Supervision of the graduation project of the graduated students in our department 2016-2017 entitled "Production and Characterization of Aluminum Composite Materials".
- Supervision of Mine surveying project of 3rd year students from 2014 till now.

Teaching and Organization Work Experiences

Sep./2000 – Apr./2008	1- I have been assisting in teaching the following undergraduate courses: Principles of Extractive Metallurgy (two courses), Principles of Physical Metallurgy, Principles of Material Selection for Engineering Design, Engineering Corrosion and control.
06 th -08 th Mar./2007	2- Participation in organization "The 10 th International Mining & Petroleum and metallurgical Engineering Conference", Assiut university, Assiut, Egypt, March 6-8, 2007.
25 th -26 th Nov./2010	3- Participation in Electric vehicle fabrication (teamwork) in Kyoto Institute of Technology, Presented in (FRP CON-Ex conference, Tokyo, 2010.
30 th July- 1 th Aug./2012	4- Participation in organization the workshop of " Ninth Joint Canada-Japan Workshop on Composites ", Kyoto Institute of Technology, Kyoto, Japan, July 30- August 1, 2012.
06 th -08 th Aug./2012	5- Participation in organization the conference of " Inteface 21 ", Kyoto Institute of Technology, Kyoto, Japan, August 06-08, 2012.
2 nd Semester Mar./2014	6- I have been teaching as assistant professor the following undergraduate course in Mining and metallurgical Engineering, Faculty of Engineering, Assiut university. Failures and Defects Analysis of Metals and Alloys

2 nd Semester Mar./2014	And I have constructed syllabus of the new following course Destructive and nondestructive testing
23 th -25 th Mar./2014	7- Participation in constructing the courses contents of the postgraduates in Mining and metallurgical Engineering, Faculty of Engineering, Assiut university.
1 st and 2 nd Semester 2014-2015	8- Participation as a listener in the conference “ The 7th International Conference for Development and the Environmental in the Arab World ”, Assiut university, Assiut, Egypt, March 23-25, 2014.
1 st and 2 nd Semester 2014-2015	9- Participation in preparing the courses of postgraduate students
	10- Teaching the postgraduate master students the course entitled“ Materials Selection ”.

Computer, language and training skills

Computer:	MS Office (Very Good) (ICDL certificate).
	Marc Software (Good).
Training courses	General and special teaching essentials courses in Faculty and leadership Development Center, Assiut university (the methodologies of scientific research; Teaching for Learning; Skills of Effective Teaching; New Trends in Teaching; Skills of Effective Communications; the Governing Rules of the Universities; Code of Ethics; Strategic Planning credit hours; International Publishing of Research.
Language Skills:	English (Very Good) (TOEFL score: 233).
	Arabic (Mother tongue)

Additions

Hobbies	Reading and sports like Football and Ping Pong
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References

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- 2- **Prof. Mohammed A.Doheim.**
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- 3- **Dr. Mohammed S. Aboraia**
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Email: maboraia@hotmail.com

4- Dr. Gomma Abdalla

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Phone: +20-109-943-5208

Email: go_abdalla@yahoo.com

- **References and certificates are available on demand.**