

# بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

## CURRICULUM VITAE

**Dr. YASSER M. HUNAITI**

**الدكتور ياسر محمد الحنيطي**

**Rank : Professor**  
**Position : Chairman**  
**Nationality : Jordanian**  
**Date of Birth : 1956**  
**Marital Status : Married**

الرتبة : استاذ  
الوضع الاكاديمي : رئيس قسم الهندسة المدنية  
الجنسية : اردنية  
تاريخ الولادة : 1956  
الحالة الاجتماعية : متزوج

### ADDRESS

Department of Civil Engineering  
Faculty of Engg. & Technology  
University of Jordan  
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### EDUCATION

**PhD** Structural Engineering, 1986 University of Manchester, England.  
Thesis title: *Behaviour of Battened Composite Columns.*  
Study Sponsored by the University of Jordan

**MEng** Structural Engineering, 1982 McGill University, Montreal, Canada  
Thesis title: *Web Buckling Under Cyclic Loading.*  
Study Sponsored by the University of Jordan

**BSc** Civil Engineering, 1978 University of Garyounis, Benghazi, Libya.  
Major in Structural Engineering. *GPA 3.26: Honors and Medal Award.*

### SPECIALIZATION

Steel - Concrete Composite Structures.

### ACADEMIC EXPERIENCE

**2009-present:** Professor and Chairman  
Department of Civil Engineering  
University of Jordan

**2007-2009 :** Visiting Professor (Three semesters) Umm Al-Qura  
University, Makkah Al Mukarramah

**2006-2007:** Visiting Professor (one semester), Tafila Technical  
University, Jordan.

**2005-2006:** Professor and Chairman  
Department of Civil Engineering  
University of Jordan, Amman, Jordan.

- 2000-2005:** Professor, University of Jordan, Amman, Jordan.
- 1999-2000:** Visiting Professor, Al Balqa Applied University, Amman College for Engineering Technology ACET.
- 1998-1999:** Professor, University of Jordan, Amman, Jordan.
- 1996-1997:** Visiting Associate Professor, Jordan University of Science and Technology JUST, Irbid - Jordan.
- 1992-1996:** Associate Professor, University of Jordan, Amman, Jordan.
- 1986-1992:** Assistant Professor, University of Jordan, Amman, Jordan.
- 1983-1985:** Teaching Assistant, University of Manchester, England.
- 1979-1980:** Teaching and Research Assistant, University of Jordan.

## **ACADEMIC ACTIVITIES**

- \* Teaching both graduate and undergraduate courses in Structural Engineering.  
 Ph.D. Courses: *Behavior and Plastic Design of Steel Structures, Methodology.*  
 M.Sc. Courses: *Advanced Design of Steel and Composite Structures.*  
 B.Sc. Courses: *Steel Structures, Structural Mechanics, Strength of Materials, Statics, Elementary Structural Analysis, Indeterminate structural Analysis, Structural Analysis (Arch. Students), Applied Structures (Arch. Students), Reinforced Concrete I, Reinforced Concrete II and Technical Writing.*
- \* Member of the Editorial Board of Dirasat Journal of Engineering Sciences University of Jordan (2003-2006).
- \* Reviewing many academic papers in structural engineering for publication in Journals of Engineering in several Arab countries.
- \* Reviewing and Evaluating many academic works for promotion of colleagues in several Arab countries.
- \* Member of the Organizing Committee for the Second Arab Conference on Structural Engineering ACSE-2. Amman-Jordan.
- \* Member of the Organizing Committee for the second Jordanian Civil Engineering Conference JCEC-2, Amman-Jordan.

- \* Receiving (7) Research Grants from the Deanship of Academic Research at the University of Jordan.
- \* Supervising (5) PhD Students in their research for the PhD degree at the University of Jordan.
- \* Supervising (30) MSc. students in their Experimental and Theoretical research in the Analysis and Design of Composite Members (*Columns under major, minor and biaxial bending, Effect of Residual Stresses, Beams under Torsion, Bond in Composite Sections, Concrete Filled Tubes and Shell Columns*); Behaviour of Lightweight Concrete Beams; Concrete Columns; Seismic Analysis; Plate Elements and Lightweight Concrete in Composite Construction.
- \* Supervising over (30) BSc. Students in their design projects for their BSc degree graduation requirements.
- \* Member of the Examining Committee for 5 other PhD students, at the University of Jordan
- \* Member of the Examining Committee for over 30 other MSc students at the Faculty of Engineering and Technology, University of Jordan and at Jordan University of Science and Technology (JUST)
- \* Member of the Examining Committee for over 50 BSc graduation (design) projects at the Faculty of Engineering and Technology, University of Jordan, JUST and ACET.

## **ADMINISTRATIVE ACTIVITIES**

- \* Chairman of the Dept. of Civil Engineering (2009-present)
- \* Chairman of the Dept. of Civil Engineering (2005-2006)
- \* Member of the Editorial board of Dirasat, Journal of Engineering Sciences University of Jordan (2003-2006)
- \* Member of the Graduate Studies Committee (1994-1995) (2000-2001) and (2003-2004)
- \* Supervisor of the Structural Engineering Division (1992-1995)
- \* Chairman of the Dept. of Civil Engineering (several transition periods)
- \* Representative of the Dept. in the Faculty Council (1991-1992) (2000-2001) (2002-2003)

- \* Secretary of the Dept. Council (1989-1991)
- \* Member of the Faculty Promotion Committee (2000-2001) (2002-2003)

## **INTERNATIONAL SCHOLARSHIPS**

- \* MIF Research Fellowship for 3 months 1989 at the General Building Research Center - Osaka, Japan. (*Medal Award*)
- \* DAAD Research Scholarship for 2 months 1990 at the University of Stuttgart - Germany.

## **ASSOCIATION MEMBERSHIPS**

- \* Member of the Jordan Engineers Association.
- \* Member of the Association for International Cooperation and Research in Steel-Concrete Composite Structures, (ASCCS) England.
- \* Associate member of the American Society of Civil Engineers, (ASCE), USA.

## **PUBLICATIONS**

### **Books**

*Technical Writing*, 2008

Submitted to The Deanship of Academic Research at the University of Jordan

*Statics*, 2006, ISBN : 9957-06-286-7

دار المسيرة للطباعة والنشر - عمان - الأردن

### **Technical Papers**

- 1- Younes, R.M., Abu-Farsakh, G., Hunaiti, Y.M., 2009, "Effect of Welding on Lateral-Torsional Buckling Resistance of I-Shaped Built-up Steel", Jordan Journal of Civil Engineering JJCE, Vol. 3, No.4.
- 2- Nawafleh, M.A., Hunaiti, Y.M., Younes, R.M., 2009 "A Comparison of Residual Stresses in Built-up Steel Beams Using Hole-Drilling Method" Journal of Mechanical Science and Technology" Vol.23.
- 3- Abdel-Jawad, Y., Daoud, M., Hunaiti, Y.M. 2006, "Optimization of Prestressed Concrete Simply Supported Beams Using Genetic Algorithms" Proceedings of the 2<sup>nd</sup> Int'l conf on Nonsmooth/Nonconvex Mechanics, July 2006, Thessaloniki, Greece.

- 4- **Hunaiti Y.M.**, Al-Shahari A., and Mohammed T.R. 2006, " Structural Behavior of Lightweight Aggregate Concrete Composite Columns " .Proceedings of the SS06: 8<sup>th</sup> Int'l conf. on Steel, Space and Composite Structures, May 2006, KualaLumpur, Malaysia .
- 5- **Hunaiti** , Abdel-Jawad and Daoud, 2006," Optimum Design of AASHTO Bridge Sections Using Genetic Algorithms" .Proceedings of the 4<sup>th</sup> Jordanian Civil Eng. Conf., April 2006 , Amman , Jordan .
- 6- Al. Wathaf, A.H., **Hunaiti, Y.M.**, 2005, "Behaviour of Steel Plates Under Axial Compression and Their Effect on Column Strength", Dirasat, Engineering Sciences, Vol.32, No.1.
- 7- **Hunaiti, Y.M.**, Bsisu, K., Irshidat, H., 2004, "Effect of Residual Stresses on The Strength of Battened Composite columns", Dirasat, Engineering Sciences, Vol. 31, No.2.
- 8- **Hunaiti, Y.M.**, Al-Khamis, T.M., Mohammad, T.R.A., 2004, "Effects of Chemical and Mineral Admixtures on Properties of Concrete Produced from Different Aggregate Types" Sustainable Development in Concrete Technology, Proceeding of the 7<sup>th</sup> ICCT, S(22) pp 247-256, KualaLumpur, Malaysia.
- 9- Mohammad, T.R.A., Al-Khamis, T.M., **Hunaiti, Y.M.**, 2004, "Short Term Structural Properties of High Strength Concrete Produced Utilizing Mineral Admixures" Sustainable Development in Concrete Technology, Proceeding of the 7<sup>th</sup> I CCT, S(28) pp 309-318, KualaLumpur, Malaysia.
- 10- Ghannam, S.M., Abdel Jawad, Y., **Hunaiti, Y.**, 2004, "Failure of Lightweight Aggregate Concrete Filled Steel Tubular Columns" Steel and Composite Structures, Techno-Press, Korea, Vol.4, No.1.
- 11- Hasany, Z., Mohammad, T.R. and **Hunaiti, Y.M.**, 2003 "Flexural and Shear Strength of Reinforced Foamed Concrete Beams with Steel Fibers", Dirasat, Engineering Sciences, Vol. 30, No.2.
- 12- Mohammad, T.R., Hamdan, M.S., and **Hunaiti Y.M.**, 2003 "Column Deflection Curve as an Accurate Alternative Method for Determining the Ultimate Strength of Composite Columns", Dirasat, Engineering Sciences, Vol.30, No.2.
- 13- Assi I.M., Qudeimate E.M. and **Hunaiti Y.M.** 2003 "Ultimate Moment Capacity of Foamed and Lightweight Aggregate Concrete-Filled Steel Tubes", Steel and Composite Structures, Techno-Press, Korea, Vol. 3 No.3.

- 14- **Hunaiti, Y.M.**, Asi, I. and Nasr L., 2003, "Composite Action in Lightweight Concrete Filled Tubes". *Dirasat, Engineering Sciences*, Vol.30, No.1.
- 15- **Hunaiti, Y.M.** and Ghannam, S.M., 2003, "The Carrying Capacity of Lightweight Aggregate Concrete-Filled Steel Tubular columns", *Dirasat, Engineering Sciences*, Vol. 30. No.1.
- 16- Shahari, A.M., **Hunaiti, Y.M.** and Abu Ghazaleh, B. 2003 "Behavior of Lightweight Aggregate Concrete – Encased Composite Columns", *Steel and Composite Structures*, Techno-press, Korea, Vol.3, No.2.
- 17- **Hunaiti, Y.M.**, Falah, N.M., and Assi, I.M. 2002, "Evaluation of the Concrete Contribution Factor for Composite Sections with Lightweight Concrete Under Axial Compression", *Pakistan Journal of Applied Sciences*, PJAS, Vol2, No.10.
- 18- Rjoub, M. and **Hunaiti, Y.M.** 2002, "Flexural Strength of Steel Fiber Reinforced Concrete with Longitudinal Bars", *Proc. 6ICCT, Amman, Jordan*, Vol.2 pp. 519-526.
- 19- Assi, I.M., Abed, S.M. and **Hunaiti, Y.M.** 2002, "Flexural Strength of Composite Beams Partially Encased in Lightweight Concrete" *PJAS*. Vol.2 No.3.
- 20- **Hunaiti, Y.M.**, and Ghannam, S. 2001, "Experiments on Battened Composite Columns Under Biaxial Bending". *Dirasat; Engineering Sciences*, Vol.28 No.2.
- 21- **Hunaiti, Y.M.** 2000, "Effect of Residual Stresses on the Strength of Partially Encased Composite Columns". *Dirasat; Engineering Sciences* Vol.27 No.2.
- 22- **Hunaiti, Y.M.**, Abu Kabir, M. and Nimry, H., "Torsional Strength of Partially - Encased Composite Beams" *Second Jordanian Civil Engineering Conference, JCEC-2 Nov. 99, University of Jordan, Amman-Jordan.*
- 23- **Hunaiti Y.M.**, "Strength of Composite Sections with Foamed and Lightweight Aggregate Concrete". *ASCE-Journal of Materials in Civil Engineering*, U.S.A. Vol. No. 9. May 1997.
- 24- **Hunaiti, Y.M.**, "Composite Action of Foamed and Lightweight Aggregate Concrete" *ASCE-Journal of Materials in Civil Engineering*, U.S.A. Vol. No.8.August 1996.
- 25- **Hunaiti, Y.M.** and Al-Hallie, O. "Ultimate Strength of Battened Composite Columns Under Minor Axis Bending", presented to the Sixth

Arab Conference in Structural Engineering. ACSE-6, University of Damascus, Syria, October 1995.

- 26- **Hunaiti, Y.M.**, "Aging Effect on Bond Strength in Composite Sections". *Journal of Materials in Civil Engineering*. ASCE, Vol. 6 No. 4, pp 469-473, Nov. 1994
- 27- **Hunaiti, Y.M.**, and Masuo, K., "Behaviour of Eccentrically Loaded Slender Battened Composite Columns". *Dirasat, Journal of Pure and Applied Sciences, University of Jordan*. Vol. 21B. [2] pp 161-181, March 1994.
- 28- **Hunaiti, Y.M.**, and Abdel Fattah, B., "Design Considerations of Partially Encased Composite Columns". *Proceedings of the Institution of Civil Engineers, Journal of Structures and Buildings*. London, England. Paper 10315 Vol. 104 [1] pp. 75-82 Feb. 1994.
- 29- **Hunaiti, Y.M.**, "Composite Columns of Semi-Encased Sections" *Dirasat, Journal of Pure and Applied Sciences, University of Jordan, Jordan*. Vol. 20 20B [1], pp 138-150, Jan. 1993.
- 30- **Hunaiti, Y.M.**, Wakabayashi, M. and Masuo, K., "Experimental Evaluation of the Effect of Bond on the Maximum Capacity of Composite Columns" *Journal of Constructional Steel Research, England*. Vol. 22 No. 1, 1992.
- 31- Wakabayashi, M., Masuo, K., **Hunaiti, Y.M.** and Konishi, M. "Behaviour of Slender Battened Composite Columns with special Regard to Bond" *Proceedings of the ICCS-3, Third International Conference on Steel-Concrete Composite Structures*, pp. 323-328, Fukuoka, Japan, 1991.
- 32- Hamdan M. and **Hunaiti Y.M.**, "Factors Affecting Bond Strength in Composite Columns" *Proceedings of the ICCS-3, Third International Conference on Steel-Concrete Composite Structures*, pp. 213-218, Fukuoka, Japan, 1991.
- 33- **Hunaiti, Y.M.**, "Bond Strength in Battened Composite Columns", *Journal of Structural Engineering, ASCE*, Vol. 117, No. 3, pp 699-714, 1991.
- 34- Konishi, M., Masuo, K. and **Hunaiti Y.M.** "Behaviour of Eccentrically Compressed Long Battened Composite Columns" *Publications of the General Building Research Center, Osaka, Japan, Report No. 3, Dec. 1989 (in Japanese)*.
- 35- Shakir-Khalil, H. and **Hunaiti, Y.M.**, "Developments in Composite Columns" *Proceedings of the Second Arab Conference on Structural Engineering, ACSE-2, University of Jordan, Amman, Jordan, April 1987*.

- 36- Shakir-Khalil, H. and **Hunaiti, Y.M.** "Battened Composite Column", Steel in Buildings - Symposium, International Association for Bridge and Structural Engineering (IABSE), Luxembourg, Symposium Report, Vol. 48, pp. 325-333, Sept. 1985.
- 37- Shakir-Khalil, H. and **Hunaiti, Y. M.** "Behaviour of Battened Composite Columns", Applied Solid Mechanics, Conference, Strathclyde University, U.K., Proceedings, pp 415-433, Elsevier Applied Science. March 1985.

## **THESIS SUPERVISION**

### **Ph.D**

- 1- Effect of Welding on Lateral-Torsional Buckling Resistance of I-Shaped Built-up Steel Beams. 2006
- 2- Generating and Implementing Genetic Algorithms to get the Optimum Design of Prestressed Concrete Simply Supported Beams 2004
- 3- Buckling of Steel Portal Frames Considering Geometric and Material Non-Linearities 2003.
- 4- Behavior of Lightweight Concrete-Encased Composite Columns 2002.
- 5- Behavior of lightweight Concrete-Filled Steel Tubular Columns 2001.

### **M.Sc.**

1. Design Considerations of Encased Composite Columns 2003.
2. A Study of Factors Affecting the Design of Two-Way Concrete Slab Systems 2003.
3. Producing High Strength Concrete By Using Mineral Admixtures 2003.
4. Behavior of Reinforced Concrete Elements with High Strength Reinforcement 2003.
5. Shear Strength of Steel Fiber Reinforced Concrete Beams 2003.
6. Ultimate Moment Capacity of Lightweight Concrete Filled Steel Tubes 2002.
7. Behavior of Steel Plates Under Axial Compression and Their Effects on Column Strength. 2002.



8. Design of Compression Members as Affected by Plate Buckling 2002.
9. Evaluation of the Concrete Contribution Factor for Composite Sections with Lightweight Concrete under Axial Compression. 2002.
10. Design of Concrete Filled Steel Tubes-Comparative Study 2000.
11. Effect of Steel Fiber Inclusion on Shear Strength of Lightweight Concrete. 2000.
12. Re-Evaluation of Longitudinal Lower and Upper Steel Limits in Concrete Columns. 1999.
13. Size Effect on Flexural Strength of Lightweight Concrete Beams with Steel Fibers. 1999
14. Effect of Central Rectangular Holes on The Behavior of Orthotropic Plates Using Finite Element Method. 1998.
15. Flexural Strength of Partially Encased Composite Beams with Lightweight Concrete, 1998.
16. Flexural and Shear Strength of Reinforced Foamed Concrete Beams with Steel Fibers. 1997.
17. Seismic Zoning in Jordan for Civil Engineering Constructions. 1996.
18. Bond Strength of Lightweight Concrete In Composite Section. 1996.
19. A Recent Method for the Design of Reinforced Concrete Columns. 1996.
20. Shear Strength of Structural Lightweight Foamed Concrete Beams, Experimental and Theoretical Study. 1993.
21. Torsional Strength of Semi-Encased Composite Beams. 1993
22. Composite Columns of Semi-Encased Sections. 1993.
23. Ultimate Strength of Shell Composite Columns. 1993
24. Experimental Study of the Effect of Eccentricity Ratio on the Ultimate Strength of Battened Composite Columns Under Major Axis Bending. 1991.
25. Load Carrying Capacity of Battened Composite Columns Under Minor Axis Bending. 1990

26. Load Carrying Capacity of Battened Composite Columns Under Major Axis Bending. 1990.
27. Experimental Evaluation of the Eccentricity Ratio Effect on the Load Carrying Capacity of Battened Composite Columns Under Minor Axis Bending. 1990.
28. Approximate Methods for Calculating the Ultimate Strength of Composite Columns. 1990.
29. Effect of Residual Stresses on the Capacity of Battened Composite Columns Under Minor Axis Bending. 1990.
30. Experiments on Battened Composite Columns under Biaxial Bending. 1989.

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