

Curriculum Vitae

Wael Ahmed SALAH KHALIL

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Education

Warsaw University of Technology, Faculty of Civil Engineering, Warsaw, Poland
Doctor of Science in Civil Engineering, September 2009.

Grade: distinction

Concentrations: steel and steel-concrete composite beams

Dissertation: Modelling of instability behaviour in hogging moment regions of steel-concrete composite beams

International Institute of Seismology and Earthquake Engineering, Tsukuba, Japan
Special Diploma in Earthquake Engineering, 2002

Concentrations: Buildings subjected to hazard during earthquakes

Al-Azhar University, Faculty of Engineering, Cairo, Egypt

Master of Science in Civil Engineering, August 2000

Concentrations: steel-concrete composite girders

Dissertation: Behaviour of composite girder bridges

Al-Azhar University, Faculty of Engineering, Cairo, Egypt

Bachelor of Science in Civil Engineering, July 1995

Grade: Very Good Class Honours

Employment History

September 2013 – till present

Assistant Professor at Northern Boarder University, Faculty of Engineering, Civil Engineering Department, Saudi Arabia.

June 2018 – till present

Associated Professor at Al-Azhar University, Faculty of Engineering, Civil Engineering Department.

October 2009 – June 2018

Assistant Professor at Al-Azhar University, Faculty of Engineering, Civil Engineering Department.

August 2000 – October 2009

Lecturer assistant at Al-Azhar University, Faculty of Engineering, Civil Engineering Department.

December 1996 – August 2000

Demonstrator at Al-Azhar University, Faculty of Engineering, Civil Engineering Department. I was responsible to take part in the exercise classes which have been designated for the undergraduate students.

Skills**Computer Skills:**

- Modelling sophisticated problems using ABAQUS software
- Modelling normal 3D structures using Sap2000
- Modelling floor systems and foundations using Safe12
- AutoCad 2021
- Microsoft office

Language Skills:

- Arabic is the native language
- English is the second language (very good writhing and speaking)

Experience

From December 1996 to September 2005 and from March 2010 to September 2013 I worked as a designer engineer in different consultant offices in Cairo. I designed many concrete buildings, concrete water tanks and pile retaining systems using the Egyptian Code of Practice. In year 2000, I had a great opportunity to participate in the analysis and design two steel bridges through the coast international road. The first bridge consists of 3 spans continuous bridge with 2 box cells cross section. The second bridge was simple span bowstring arch bridge with span 40m.

Publications

Scientific articles

- [1] H. ABBAS, W. SALAH, Stress Distribution on composite section due to normal forces. Al-Azhar Engineering Sixth International Conference (AEIC 2000), Faculty of Engineering, Al-Azhar University, Cairo, Egypt, September, 2000.
- [2] H. ABBAS, W. SALAH, Slab participation in composite section due to normal forces. 9th Arab Structural Engineering Conference, Abu Dhabi – United Arab Emirates, November, 2003.
- [3] M.A. GIŻEJOWSKI, W. SALAH, W. Barcewicz, Experimental and numerical modelling of steel flush end-plate beam-to-column joints. Conference in Building and Engineering Constructions, Bialystok University Press, Bialystok, 2007, pp. 225-232.
- [4] M.A. GIŻEJOWSKI, W. SALAH, Failure modes of composite beams in the hogging moment region of continuous or semi-continuous systems. In: Lightweight Structures in Civil Engineering – Contemporary Problems (ed. J. B. Obrebski). Proceedings of Local Seminar of the Polish Chapter of IASS, Warsaw, 7th December, 2007, pp. 114-136.
- [5] M.A. GIŻEJOWSKI, W. SALAH, W. BARCEWICZ, Finite element modelling of the behaviour of steel end-plate beam-to-column joints. Archives of Civil Engineering, LIV, 4, pp. 693-733, 2008.
- [6] M.A. GIŻEJOWSKI, W. SALAH, W. Barcewicz, Steel beam-to-column bolted joints with thin end-plates – Experimental investigation and finite element modelling. Proceedings: Eurosteel Conference, 3-5 September, 2008, Graz, Austria, pp. 483-488.
- [7] W. SALAH, M.A. GIŻEJOWSKI, Restrained distortion buckling of composite beams - FE modelling of the behaviour of steel-concrete beams in the hogging moment region. Proceedings: Eurosteel Conference, 3-5 September, 2008, Graz, Austria, pp. 1629-1634.
- [8] W. SALAH, M.A. GIŻEJOWSKI, Composite steel-concrete beams in modern building structures. Proceedings of the 3rd Scientific-Technical Conference of PhD Students and Young Researchers, Warsaw University of Technology, 22-24 September, 2008, pp. 494-498.
- [9] M.A. GIŻEJOWSKI, W. BARCEWICZ, W. SALAH, Experimental and numerical modelling of composite steel-concrete flush end-plate beam-to-column joints. In: Building and Engineering Constructions. Bialystok University Press, Bialystok, 2008, pp. 41-50.
- [10] W. SALAH, M.A. GIŻEJOWSKI, Experimental investigation of the stability behaviour of slender section steel-concrete composite beams with web openings. In: Lightweight Structures in Civil Engineering – Contemporary Problems (ed. J. B. Obrebski). Proceedings of Local Seminar of the Polish Chapter of IASS, Warsaw, 5th December, 2008, pp. 68-75.

- [11] W. SALAH, M.A. GIŻEJOWSKI, Numerical finite element modelling of the stability behaviour of slender section steel-concrete composite beams with web openings. In: *Lightweight Structures in Civil Engineering – Contemporary Problems* (ed. J. B. Obrebski). Proceedings of Local Seminar of the Polish Chapter of IASS, Warsaw, 5th December, 2008, pp. 76-86.
- [12] W. Barcewicz, W. SALAH, M.A. GIŻEJOWSKI, Investigations into the behaviour of composite thin end-plate steel-concrete joints cast in-site on profiled sheeting. Proceedings of *Theoretical Foundations of Civil Engineering, Polish-Ukrainian-Lithuanian Transactions 16*, Warsaw, June, 2008, pp. 395-402.
- [13] W. SALAH, M.A. GIŻEJOWSKI, Validation of Eurocode 4 provisions for beam RDB design method using numerical simulations. Conference proceeding in *Theoretical Foundations of Civil Engineering, Polish-Ukrainian-Lithuanian Transactions 16*, Warsaw, June, 2008, pp. 493-500.
- [14] M.A. GIŻEJOWSKI, W. SALAH, Solving behavioural issues of composite joints by appropriate Finite Element modelling. Conference proceeding in *Budownictwo i Inżynieria Środowiska*, z. 50, Rzesów, October, 2008, pp. 63-72.
- [15] W. SALAH, Experimental investigation and numerical modelling of cellular composite steel-concrete beams. Proceedings of the 4th Scientific-Technical Conference of PhD Students and Young Researchers, Warsaw University of Technology, 21-23 September, 2009, pp. 246-257.
- [16] M.A. GIŻEJOWSKI, W. SALAH, Experimental and numerical investigations of the behaviour of composite cellular beams for innovative structural applications. BIE 11th Biennial Conference, Botswana – South Africa, 7-9 October 2009, pp. 1-10.
- [17] W. SALAH, M.A. Giżejowski, S. WIERZBICKI, Numerical modelling of the behaviour of multiple-cable-pylon cap joint in a cable roof structure, Proceeding of the fourth international conference on structural engineering and computation, 06-08 September 2010, Cape Town, South Africa, pp. 335-338.
- [18] W. A. SALAH, Finite element simulation of steel end-plate beam-to-column joint, *Journal of Al Azhar University Engineering Sector (JAUES)*, Vol. 7, No. 22, January 2012, PP. 71-79.
- [19] W. A. SALAH, Finite element modelling of bracing member behavior in tested steel frames, *Journal of Al Azhar University Engineering Sector (JAUES)*, Vol. 9, No. 31, April 2014, PP. 456-463.
- [20] W. A. SALAH, Rehabilitation and strengthening of rectangular hollow section steel beams using carbon fiber reinforced polymer, *International Journal of Scientific Research in Science, Engineering and Technology*, Vol. 3, Issue 3, May-June 2017, PP. 202-210.
- [21] Wael A. Salah, Performance of Hybrid Castellated Beams - Prediction Using Finite Element Modeling, *Engineering, Technology & Applied science Research*, Vol. 12, No. 2, 2022, pp. 8444-8451

Technical reports

- [1] M.A. GIŻEJOWSKI, L. KWASNIEWSKI, W. BARCEWICZ, W. SALAH, Robustness oriented analysis of structural joints of steel-concrete composite frames. Robustness of Structures, COST Action TU0601, 1st Workshop, February 4-5, 2008, ETH Zurich, Zurich, Switzerland, pp. 134-142.
- [2] L. KWASNIEWSKI, M.A. GIŻEJOWSKI, U. KUHLMANN, W. SALAH, Structural properties and modelling of steel-concrete composite structures for structural robustness analysis. Robustness of Structures, COST Action TU0601, 3^{ed} Workshop, Coimbra, 2-3 March, 2009.