

<b>Academic Title</b>	: Prof. Dr.
<b>Status</b>	: Senior Lecturer, Department of Civil Engineering
<b>Professional Title</b>	: <b>Chartered Engineer, Fellow</b> ICE-UK, <b>Eur Ing</b> , FEANI, AM ASCE <b>Expert</b> , Occupational Health and Safety - TRNC
<b>Date / Place of Birth</b>	: 17/02/1962, Nicosia, Cyprus
<b>Nationality</b>	: Cypriot, British
<b>Gender</b>	: Female
<b>Marital Status</b>	: Married, have two sons
<b>Address</b>	: 5 Yonca Sokak, DAÜ Arsalari, Kocatepe, İskele - North Cyprus
<b>Office Tel / Mob</b>	: +90 392 630 1159 / +90 533 8632613
<b>E-mail</b>	: murude.celikag@emu.edu.tr

## EDUCATION

Qualification	Date	Major Field of Study and Degree Awarding Body/Institute
Ph.D.	25/05/90	Structural Engineering, " <i>Moment-rotation behaviour of steel beam-to-column connections</i> ", University of Sheffield, UK
M.Phil.	30/05/86	Structural Engineering, " <i>Behaviour of columns with semi-rigid connections</i> ", University of Sheffield, UK
B.Eng. (High.Hons.) (Rank No.1)	03/08/84	Civil Engineering, Higher Technological Institute, North Cyprus, (Now Eastern Mediterranean Univ.)

## EMPLOYMENT

### Academic Experience

Rank	Department	Institution	Years
Prof. Dr.	Civil Engineering Dept.	Eastern Mediterranean University	2022-present
Assoc. Prof. Dr.	Civil Engineering Dept.	Eastern Mediterranean University	2016-22
Asst. Prof. Dr.	Civil Engineering Dept.	Eastern Mediterranean University	2005-16
Visiting Asst. Prof. Dr.	Civil Engineering Dept.	Eastern Mediterranean University	2000-05
Instructor (Full-Time)	Univ. General Reqs. Unit	United Arab Emirates Univ., Al Ain	2000
Adjunct Prof. Dr.	Civil Engineering Dept.	United Arab Emirates Univ., Al Ain	1997-98
Instructor (Part-Time)	Civil & Structural Eng. Dept.	Univ. of Sheffield, Sheffield, UK	1986-89
Teaching Assistant	Civil Engineering Dept	Higher Technological Institute (Eastern Mediterranean Univ.)	1983-84

### Professional Experience

Company/Organization	Job Title	Years
British Steel Middle East (CORUS Middle East), Dubai, United Arab Emirates	Structural Advisory Engineer for Middle East	1998-00
National Engineering Consultants, Al-Ain , United Arab Emirates	Civil & Structural Engineer	1996-97
Kvaerner Process (formerly John Brown Engineers & Constructors Limited), Portsmouth-UK	Civil & Structural Engineer	1990-96
Kvaerner Process (formerly John Brown Engineers & Constructors Limited), Singapore	Structural / Architectural Coordinator	1990-91
Behzat Aziz Beyli Architectural Office, North Cyprus	Assistant Engineer & Draughtsman	1980-84

### Administrative Positions

<u>Company/Organization</u>	<u>Job Title</u>	<u>Year</u>
Ministry of Labour and Security, TRNC	Minister's Health and Safety Advisor	2018-
Eastern Mediterranean University	Rector's Advisor – Technical, Institutional Relations	2015-16
ROBUST Engineering and Consultancy	Director	2010-present
Eastern Mediterranean University	Chair, Dept of Civil Engineering	2010-13
Eastern Mediterranean University	Chair, Dept of General Education	2006-10
Eastern Mediterranean University	Vice Chair, Civil Eng. Dept	2001-04
<b>CORUS Middle East</b> (formerly <b>British Steel Middle East</b> ), Dubai, United Arab Emirates	Structural Advisory Eng., Gulf and Middle East	1998-00
<b>Kvaerner Process</b> (formerly John Brown Engineers & Constructors Limited), Portsmouth-UK	Assistant Lead Engineer	1995-96
<b>Kvaerner Process</b> (formerly John Brown Engineers & Constructors Limited), Site Office, Grimsby-UK	Buildings Contract Site Coordinator Ciba-Geigy Project	1991-92
<b>Kvaerner Process</b> (formerly John Brown Engineers & Constructors Limited), Singapore	Structural / Architectural Coordinator	1990-91

### **PUBLICATIONS:**

#### **SCI-EXPANDED JOURNAL PAPERS ACCEPTED/PUBLISHED**

1. Eissa, M., **Celikag, M.** *Composite Behavior of Reinforced Concrete T-Beam with Composite Slab*. Arab J Sci Eng (2022). <https://doi.org/10.1007/s13369-022-06699-4>
2. Sehwal, M.M., **Celikag, M.** Load Carrying Capacity of Hot-Rolled Hybrid Cellular Steel Beams: Experimental Investigations. Arab J Sci Eng (2022). <https://doi.org/10.1007/s13369-021-06508-4>
3. H. R. Gatabi, **M. Celikag**, H. A. Bengar, "Experimental investigation of steel fibers effect on the cyclic behavior of flexural members with moderate ductility", *Structures*, Volume 34, December 2021, Pages 2530-2543 <https://doi.org/10.1016/j.istruc.2021.09.022> WOS:000709126200001
4. H. Alhendi, M. Mahmoud and **M Celikag**, "Optimal depth selection of composite tubular-floor trusses based on cost estimation", *Advances in Structural Engineering*, 24 (13), Oct 2021, pp.2912-2926 <https://doi.org/10.1177/13694332211009324> WOS:000680113000001
5. H. Alhendi, M. Mahmoud and **M Celikag**, "Numerical study of top-and seat-angle with double web-angle connection with high-strength steel", *Journal of Constructional Steel Research*, Vol.174 Issue. Article 106297, Nov 2020, Pages 1-17, <https://doi.org/10.1016/j.jcsr.2020.106297> WOS:000579832000017
6. H. Akbarzadeh Bengar, M. Hosseinpour and **M. Celikag**, "Influence of CFRP confinement on bond behavior of steel deformed bar embedded in concrete exposed to high temperature", *Structures*, Volume 24, April 2020, Pages 240-252. <https://doi.org/10.1016/j.istruc.2020.01.017> WOS:000519625500019
7. M.S. Kenari, **M. Celikag**, "Correlation of Ground Motion Intensity Measures and Seismic Damage Indices of Masonry-Infilled Steel Frames", *Arabian Journal for Science and Engineering*, May 2019, Vol.44, Issue 5, pp.5131-5150. <https://doi.org/10.1007/s13369-019-03719-8> WOS:000464749500078
8. M. Hosseinpour, **M. Celikag** and H. Akbarzadeh Bengar, "Strengthening and shape modification of fire-damaged concrete with expansive cement concrete and CFRP wrap", *Scientia Iranica*, Volume 26, Issue 2, March and April 2019, Page 699-708. <https://doi.org/10.24200/sci.2017.4592> WOS:000464968500008
9. H. Alhendi and **M Celikag**, "Finite element prediction of reverse channel connections to tubular columns", *Engineering Structures*, Vol.100, Issue. Oct 2015, pp.599-609. <http://dx.doi.org/10.1016/j.eVngstruct.2015.06.040> WOS:000361774300048

10. H. Alhendi and **M Celikag**, "Behaviour of reverse-channel and double-reverse-channel connections to tubular columns with HSS", *Journal of Constructional Steel Research*, Vol.112 Issue.Sep 2015, pp.271–281. <http://dx.doi.org/10.1016/j.jcsr.2015.05.017> WOS:000358819700025
11. S. Moazam, Z.Nalbantoğlu, **M. Celikag**, "Use of Finite Point Method for Wave Propagation in Nonhomogeneous Unbounded Domains", *Mathematical Problems in Engineering*, Hindawi Publishing Corporation, Vol 2015, 9 Feb 2015, Article ID 914207, 9 pages. <https://doi.org/10.1155/2015/914207> WOS:000353497500001
12. H. Alhendi and **M Celikag**, "Parametric study on moment-rotation characteristics of reverse channel connections to tubular columns", *Journal of Constructional Steel Research*, Vol.104 , Issue.Jan 2015, pp.261-273. <https://doi.org/10.1016/j.jcsr.2014.10.009> WOS:000346217300022
13. S. Moazam, B. Boroomand, S. Naimi, **M. Celikag**, "Wave Propagation in Unbounded Domains under a Dirac Delta Function with FPM", *Mathematical Problems in Engineering*, Hindawi Publishing Corporation, Vol 2014, 6 Feb 2014, Article ID 470346, 8 pages. <https://doi.org/10.1155/2014/470346> WOS:000331195500001
14. Reza JalaliLarijani, **Murude Celikag**, Iman Aghayan and Mahdi Kazemi, "Progressive collapse analysis of two existing steel buildings using a linear static procedure", *Structural Engineering and Mechanics*, Vol. 48, No. 2 (2013), pp.207-220. <https://doi.org/10.12989/sem.2013.48.2.207> WOS:000328278600004
15. S Naimi, **M Celikag**, A A. Hedayat, "Ductility Enhancement of post-Northridge connections by multi longitudinal voids in the beam web", *The Scientific World Journal*, Vol. 2013, Article ID 515936, 14 pages. <https://doi.org/10.1155/2013/515936> WOS:000326980800001
16. Hedayat, A. A and **Celikag, M**, "Wedge design: A reduced beam web (RBW) connection for seismic regions", *Advances in Structural Engineering*, Vol.13, No:2, 2010, pp.263-290. <https://doi.org/10.1260/1369-4332.13.2.263> WOS:000277975900005
17. Hedayat, A. A and **Celikag, M**, "Fracture Moment and Ductility of Welded Connection", *Proceedings of ICE, Structures and Buildings*, Vol.162, Issue SB6, December 2009, pp.405-418. <https://doi.org/10.1680/stbu.2009.162.6.405> WOS:000272397100006
18. Hedayat, A. A and **Celikag, M** "Post-Northridge connection with modified beam end configuration to enhance strength and ductility". *Journal of Constructional Steel Research*, Vol.65, Issue 7, July 2009, pp. 1413-1430. <https://doi.org/10.1016/j.jcsr.2009.03.007> WOS:000266896300002
19. **Celikag, M** "Economic aspects of using steel framed buildings with composite floor: case studies from United arab Emirates", *Construction and Building Materials Journal*, 2004, Vol 18/6, pp. 383-390, Elsevier Science Ltd., USA. <https://doi.org/10.1016/j.conbuildmat.2004.03.001> WOS:000222370800005

#### INTERNATIONAL REFEREED JOURNAL PAPERS

1. Hedayat, A. A and **Celikag, M** "Enhancement of Panel zone (PZ) contribution to the ductility of post-Northridge welded connections", *WSEAS Transactions On Applied And Theoretical Mechanics*, Issue 5, Volume 3, May 2008, pp.165-174.

#### INTERNATIONAL BOOK CHAPTERS

1. Hedayat, A. A and **Celikag, M** 'Reduced beam web (RBW) connections with circular openings', *Structural Steel: Shapes and Standards, Properties and Applications*, Editor: Lena M. Becker, 2011 *Nova Science Publishers, Inc.*, 2011, pp. 1-56. WOS:000286642100001
2. **Celikag, M** and Kirby, P. A 'Standardized Method For Measuring 3-Dimensional Response Of Semi-Rigid Joints', *Connections In Steel Structures*, ed. R. Bjorhovde, J. Brozzetti and A. Colson, *Elsevier Applied Science Publishers*, 1987, pp.203-210.

#### CITATIONS

**Web of Science:** 131 citations (without self-citation) in refereed journals (**h-index: 7**)

**Google Scholar:** 286 citations (**h-index: 10**)

## INTERNATIONAL REFEREED CONFERENCE PAPERS

1. M Sehwal, **M Celikag**, "Investigation on Failure Mechanisms of Symmetric and Asymmetric Cellular Steel Beams", *Eurosteel 2021, The 9<sup>th</sup> European Conference on Steel and Composite Structures*, 1-3 Sep 2021, Sheffield-UK. ce/papers/Volume 4, Issue 2-4, pp.2308-2314. First Published: 01 September 2021. <https://doi.org/10.1002/cepa.1554>
2. MM Sehwal, **M Celikag**, 'Numerical Study on the Premature Failure of Cellular Steel Beams', *4<sup>th</sup> International Conference on Scientific Research*, February 12-13, 2021, Page 421, Ankara, Turkey. ISBN: 978-625-7898-31-7
3. H R Gatabi, **M Celikag**, H A Bengar, "An experimental study on the behavior of fiber-reinforced concrete flexural members under cyclic loading", *IOP Conf. Ser.: Mater. Sci. Eng.* 800 012017, *5<sup>th</sup> International Conference on New Advances in Civil Engineering (ICNACE 2019)*, 8-10 November 2019, Kyrenia, Cyprus. (<https://doi.org/10.1088/1757-899X/800/1/012017> )
4. M Eissa , **M Celikag**, "Use of Slab composite with galvanized steel deck in reinforced concrete frame", *IOP Conf. Ser.: Mater. Sci. Eng.* 800 012014, *5<sup>th</sup> International Conference on New Advances in Civil Engineering (ICNACE 2019)*, 8-10 November 2019, Kyrenia, Cyprus. (<https://doi.org/10.1088/1757-899X/800/1/012014> )
5. Mohsen Shahaki Kenari, **Murude Celikag**, "Correlation Assessment between Near-Fault Ground Motion and Seismic Response of Building", *3<sup>rd</sup> International Conference & 4th.national Conference on Civil Engineering, Architecture and Urban Design*, 5-7 Sep 2018, Tabriz, Iran <https://civilica.com/doc/805903/>
6. M Hosseinpour, **M Celikag**, H A Bengar, "Investigation of Seismic Performance And Reliability Analysis of Prestressed Reinforced Concrete Bridges", *The 4<sup>th</sup> International Engineering Conference on Developments in Civil & Computer Engineering Applications- IEC2018*, 2018, Erbil-Iraq
7. **M Celikag** and H Alhendi, 'Moment-rotation Characteristics of Reverse Channel Connections to Tubular Columns', *3<sup>rd</sup> Euro Congress Steel and Structural Engineering*, 16-17 Nov 2017, London, UK. [Keynote Paper]
8. M Hosseinpour, **M Celikag**, H A Bengar, "Constructing Bridge Columns Using Pre-stressed Concrete for Earthquake Resistance", *The 5<sup>th</sup> international Congress on Civil Engineering, Architecture and Urban Development- ICSAU2017*, 26-28 Dec 2017, Tehran-Iran. <http://www.5icsau.com/en/?id=68&p=19%20%20proceedings>
9. S Alizadehsalehi, O Koseoglu, **M Celikag**, "Integration of Building Information Modeling (BIM) and Laser Scanning in Construction Industry", *AEI 2015*, 24-27 March 2015, Wisconsin, USA, pp.163-174. [ISI Cited]
10. H AlHendi, **M Celikag**, 'Effect Of Adding Large Scale Bracings Between Multi-Outrigger- Braced Tall Buildings', *ACE2014: Eleventh International Conference on Advances in Civil Engineering*, 21-25 October 2014, Istanbul, Turkey.
11. M Hosseinpour, **M Celikag**, Habib Akbarzadeh Bengar, 'Seismic Behavior Of Pre-Stressed Concrete Bridge Column', *Eleventh International Conference on Advances in Civil Engineering*, 21-25 October 2014, Istanbul, Turkey.
12. M Sehwal, **M Celikag**, 'Lateral Torsional Buckling of Steel I-Section Cellular Beams', *ACE2014: Eleventh International Conference on Advances in Civil Engineering*, 21-25 October 2014, Istanbul, Turkey.
13. **M Celikag**, H Alhendi and O Ejder, 'Performance Evaluation Of 2-D Moment Frames With High Strength Steel End-Plate Connections', *12th International Conference on Steel, Space and Composite Structures*, 28-30 May 2014, Praque, Czech Republic. [Keynote Paper]
14. H AlHendi, M AL\_Bdoor, S Şensoy, **M Celikag**, 'Seismic Performance Evaluation of Concrete-Encased Composite Beam-Columns', *ICESA 2014: International Civil Engineering & Architecture Symposium for Academicians*, 17-20 May 2014, *ICESA 2014: International Civil Engineering & Architecture Symposium for Academicians*, 17-20 May 2014, Antalya, Turkey, Vol. *Structural Engineering*, pp.234-242.
15. **Celikag, M and Naimi, S**, 'Building Construction in North Cyprus: Problems and Alternatives Solutions', *Proceedings of the Twelfth East Asia-Pacific Conference on Structural Engineering and Construction*

- (Easec12), 24-26 January, Hong Kong Special Administrative Region, China, Procedia Engineering, Volume: 14, 2011. [ISI Cited]
16. Afsharghotli, A and **Celikag, M**, "The Interaction of Sustainable Building on Society, Environment and Economy of North Cyprus", *International Symposium "Steel Structures: Culture & Sustainability 2010"*, 21-23 September 2010, Istanbul, Turkey. 2010, pp.61-68
  17. Naimi, S and **Celikag, M** 'Problems Of Reinforce Concrete Building Construction In North Cyprus', *Proceedings of the 12<sup>th</sup> International Conference on Inspection, Appraisal, Repairs and Maintenance of Buildings and Structures*, 23 - 25 April, Yantai, China, Vols. 1 and 2, Pages: 821-828, 2010. [ISI Cited]
  18. **Celikag, M** and M. Ozbilen, "Health and Safety Matters in Construction Industry in North Cyprus", *Proceedings of the 8th International Congress on Advances in Civil Engineering, ACE2008*, 15 – 17 September 2008, Gazimagusa, North Cyprus.
  19. Hedayat, A. A and **Celikag, M** "Increasing the contribution of strong panel zones to the plastic deformation capacity of post-Northridge welded connections", *Proceedings of the WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESEG '08)*, 22-24 July, New Aspects Of Engineering Mechanics, Structures, Engineering Geology, Mathematics and Computers in Science and Engineering, Heraklion, Crete Island, Greece, pp.201-208, 2008. [ISI Cited]
  20. **Celikag, M** Ozbilen, and M "Inadequate Applications of Construction Industry in North Cyprus and Recommendations", *Proceedings of the 11<sup>th</sup> International Conference on Inspection, Appraisal, Repairs and Maintenance of Buildings and Structures*, 14-17 November 2007, Kyrenia, North Cyprus, pp.109-115.
  21. Kızıldağ M., Basar E., **Celikag, M**, Atasoylu E., Mousavi S., "An Automated Attendance Monitoring and Registration System for EMU's SPIKE Seminar Series", *Proceedings of the 2<sup>nd</sup> International Conference on Integration of Information Technology in Science Education*, 16-18 January 2007, Gazi Magusa, North Cyprus.
  22. **Celikag, M**, and Ocal, C., "A Comparative Study of the Eurocode3 and BS 5950 Steel Design Codes", *Proceedings of the 8<sup>th</sup> International Conference on Steel, Space and Composite Structures*, 16-17 May 2006, Kuala Lumpur, Malaysia, pp.89-96.
  23. **Celikağ, M**, and Bozkır, S "Feasibility of Using Structural Steel in North Cyprus and Turkey", *Proceedings of the 7<sup>th</sup> International Conference on Steel and Space Structures*, 2-3 October 2002, Singapore, pp.373-380.
  24. Bilsel, H, **Celikag, M**, Eren, O and Sensoy, S "Repairs to Teacher Training Academy RC Building in North Cyprus-Case Study", *Proceedings of the 7<sup>th</sup> International Conference on Inspection, Appraisal, Repairs and Maintenance of Buildings and Structures*, 11-13 September 2001, Nottingham-Trent University Campus, United Kingdom, pp.225-232.
  25. **Celikag, M** and Islam, S "Benefits of Conceptual Design for Steel Buildings: from Consultants (structural engineer and architect) Point of View", *Specialty Conference on the Conceptual Approach to Structural Design - a post conference event of the 26<sup>th</sup> Conference on Our World In Concrete & Structures-2001*, 29-30 August 2001, Singapore, pp. 109-116.
  26. **Celikag, M** and Kirby, P. A 'Out-Of-Plane Moment Rotation Response For Common Joints', *International Colloquium On Special Bolted Connections*, *Proceedings Of The Colloquium*, 15-20 May, 1989, Moscow, USSR, Vol.2, pp.136-139

#### NATIONAL BOOKS

1. **Çelikağ, M** 'Eurocode Standartları El Kitabı', Publisher - Copy Point, pp. 1-67, 2018, KTMMOB

#### NATIONAL CONFERENCE PAPERS

1. **Çelikağ, M**. "Yapı Malzemesi Seçimi Kültüre Mi Dayalı Yoksa Ekonomi ve Mantığa Mı?", *Çelik Yapılar Sempozyumu*, Cilt I, s.41-52, TBMMO-IMO Ankara-Türkiye, 21-22 Nisan, 2005.

## POSTER PRESENTATION

1. Afsharhotli, A and **Celikag, M**, "The Impacts Of Sustainable Building Development On Environment And Energy Consumption In North Cyprus", *International Conference on Clean Energy (ICCI-2010)*, Gazimagusa – N. Cyprus, 15-17 September.

## INTERNATIONAL CONFERENCES ORGANIZATION AND EDITORSHIP

1. **Co-Chair and editor** of the proceedings for the 10<sup>th</sup> International Conference "Steel, Space and Composite Structures", which is organized by Building Sciences Research Center, EMU - CI Premier Pte Ltd-Singapore, 18-20 May 2011, Gazimagusa-North Cyprus.
2. **Chairperson and editor** of the 11th International Conference on "Inspection, Appraisal, Repair and Maintenance of Structure", BSRC-EMU and CI Premier Pte Ltd-Singapore, 14-17 November 2007, Kyrenia-North Cyprus.

## JOURNAL EDITORIAL BOARD AND REVIEWER

### JOURNAL EDITORIAL BOARD

1. Journal of Metallic Structures (MEST) [Google Scholar, Cross-Ref]

### JORNAL REVIEWER

1. Engineering Structures [SCIE]
2. Journal of Constructional Steel Research [SCIE]
3. Structural Engineering and Mechanics, *An International Journal* [SCIE]
4. Proceedings of ICE: Structures and Buildings [SCIE]
5. Proceedings of ICE: Civil Engineering [SCIE]
6. International Journal of Steel and Composite Structures [SCIE]
7. Computers and Concrete [SCIE]
8. Island Studies Journal [SSCI]
9. International Journal of Construction Management [ESCIE]
10. Proceedings of ICE: History and Heritage
11. Proceedings of ICE: Forensic Engineering
12. The Open Civil Engineering Journal

## PROFESSIONAL MEMBERSHIPS AND AWARDS

### MEMBERSHIP TO PROFESSIONAL INSTITUTES/SOCIETIES:

**Chartered Engineer, C.Eng., FICE, Fellow** of the Institution of Civil Engineers, ICE (UK), 2020  
**Chartered Engineer, C.Eng., MICE, Member** of the Institution of Civil Engineers, ICE (UK), 1994  
**Turkish Constructional Steel Association**, Turkey, 2020  
**Association of Occupational Health and Safety Expert**, TRNC, 2019  
**Occupational Health and Safety Expert**, Workers Office, TRNC, 2015  
**Associate Member** of American Society of Civil Engineers, **AM ASCE**, 2008  
Member of the United Arab Emirates Society of Engineers, 1998  
**Eur. Ing.** , Member of the European Federation of National Eng. Assoc., FEANI, 1994  
**Graduate Member** of the Institution of Civil Engineers, ICE (UK), 1990  
**Member** of the Chamber of Civil Engineers in North Cyprus, 1984

### AWARDS:

**Commonwealth Universities Scholarship**, 1986-1989, for the degree of PhD  
**Council of Ministers Scholarship** for top rank among 1984 graduates, 1984-1986, for the degree of M.Phil.  
**Ministry of Education + Scholarship** for Honour/High Honour Students, 1980-1984, for the degree of B.Eng.

## ACTIVITIES

### ***Other Activities: (Professional, Academic)***

TRNC General Early Elections 2018	Candidate for TRNC parliament	2018
Building Sciences Research Center	Founding and Active Committee Member	2001-Date
Professional Chartered Engineers in UAE Joint Group	CPD Coordinator	1998-2000
<b>Overseas Students Bureau</b> at Sheffield University Students Union (over 1000 members)	Chairperson	1987-1989
<b>Overseas Students Bureau</b> at Sheffield University Students Union (over 1000 members)	General Secretary Committee Member	1984-1987
Tourist Guides Association, <b>North Cyprus</b> (400 members)	Vice-president	1979-1984

## EXTERNAL/INTERNAL (SPONSORED) SCIENTIFIC PROJECTS

1. ***" Ductile Behavior of Steel End Plate Connection "***, (BAPC-02-20-02), September 2020, Type-C Project  
Amount of Funding: 15,230 TL  
***Acted as the Principle Investigator***
2. ***" Experimental Investigations on Hybrid Cellular Steel Beams "***, (BAPC-02-20-01), September 2020, Type-C Project  
Amount of Funding: 17,721 TL  
***Acted as the Principle Investigator***
3. ***" Application of composite slab with galvanized steel deck in reinforced concrete frame "***, (BAPC-02-12-02), 2019, Type-C Project  
Amount of Funding: 8,550 TL  
***Acted as the Principle Investigator***
4. ***"Health and Safety in Construction Site Management"***, Fund provided by The European Commission under the title Making the Labour Market More Inclusive III. (2009-10)  
Amount of Funding: 48,845 Euro  
*Project was prepared on behalf of the Union of the Chambers of Cyprus Turkish Engineers and Architects and I acted as one of the Local Experts*
5. ***"Behaviour of Reduced Steel Beam Web (RBW) Connection"***, BAP-A-07-05, 2007, Type-A Project  
Amount of Funding: 16,789 USD  
***Acted as the Principle Investigator***
6. ***"Çelik karkas yapılarda çelik kolon-kiriş bağlantılarının esnek ve depreme dayanıklı davranışı"***, Ministry of National Education and Culture (MEKB-06-08 ), 2006, Type-B Project  
Amount of Funding: 10,289 YTL (7,100 USD)  
***Acted as the Principle Investigator***

## INDUSTRIAL PROJECTS INVOLVED 1990-2000

### a) CORUS Middle East at Dubai, United Arab Emirates

**Jan 1998 – Jan 2000** : Involved in giving consultation to many international and national construction companies, such as, Hyder Consulting, W S Atkins, Maunsell, Halcrow, Parsons, Khatib and Alami, Mott Mac Donald, Emirates Building Systems etc.

### b) JOHN BROWN ENG. & CONST. LTD., Portsmouth UK

(then became **KVAERNER PROCESS** and now it is **AKER SOLUTIONS**)

- **Feb 1995 - Aug 1996** : Dow Corning Project - Barry, UK.
- **Jun 1995 - Sep 1995** : PTA Polyprima - Indonesia
- **Apr 1993 - Jul 1994** : Huntsman Crystal Polystyrene Plant, Carrington, UK.  
Chemdal Super Absorbent Chemical Plant, Birkenhead, UK.  
Samad Petrochemical Plant, Saudi Arabia.
- **Feb 1992 - Mar 1993** : Ciba-Geigy Bulk Pharmaceutical Chemical Plant, Grimsby, UK.  
(Construction Site)
- **Apr 1991 - Jan 1992** : Ciba-Geigy Bulk Pharmaceutical Chemical Plant, Grimsby, UK.
- **Dec 1990 - Mar 1991** : Fisons Pharmaceutical Plant, **Singapore (Construction Site)**
- **Jul 1990 - Nov 1990** : Fisons Pharmaceutical Plant, **Singapore.**
- **Jan 1990 - Jun 1990** : ICI PTA - Terephthalic Acid Plant, Taiwan.  
ICI Monomer 8 Plant, Billingham, UK.  
British Petroleum Petrochemical Plant, Barry, UK.  
Glaxo Chemistry Pilot Plant, Stevenage, UK.

## MS and PhD THESIS SUPERVISED

### 33 MS THESIS

1. **Mahmoud Eissa**, "Application of composite slab with galvanized steel deck in reinforced concrete frame", January 2019.
2. **Elif Nazlı Akbaş**, "Seismic Behaviour of Steel Framed Structures with Infill Walls - Analytical Study", September 2017.
3. **Buğse İlman**, "Linear and Non-Linear Static Progressive Collapse Analysis of Steel Framed Buildings with I-Beams and Truss Beams", September 2017.
4. **Abdul Karim Habrah**, "Behavior of Steel Braced Frame Structures by using Pushover and Response Spectrum Analysis", September 2017.
5. **Ali Ghabelrahmat**, "Comparison of the Behavior of Steel Structures with Concentric and Eccentric Bracing Systems", February 2016
6. **Ali Setvatishayesteh**, "Dynamic Time History and Pushover Analysis of Special Truss Moment Frames by Using Eurocodes", January 2016
7. **Ashraf M.I. Milad**, "Effect of infill wall on the seismic behaviour of steel framed structures", October 2015
8. **Omar Al Mourad**, Thesis Title: "Effect of Building Height on the Seismic Behaviour of Steel Framed Structures", September 2015
9. **Musab Nimir Ali Salih Ali**, "Experimental moment-rotation behavior of semi-rigid beam-to-column connections", August 2015



10. **Abdul Rahman Obeid**, Thesis Title: "Health and Safety in Construction Industry of Lebanon", February 2015
11. **Hani El Fawal**, "Green Building Concept of Residential Housing in Lebanon", February 2015
12. **Mahmoud El Cheikh Folfol**, "Status of the Public Building Sustainability in Lebanon: A Case Study on Fares Library", February 2015
13. **Chia Mohammadjani**, "Linear Static and Nonlinear Dynamic Analyses on Collapse Behaviors of Staggered-Truss Systems", February 2015. *(Co-supervisor Asst.Prof.Dr. Shahram Derogar)*
14. **Mani Imani**, "Structural Evaluation of Tied-Arch and Truss Footbridges through a Case Study", MS Thesis, September 2014
15. **Mohammad Mofeed Sehwal**, "Lateral Torsional Buckling of Steel I-Section Cellular Beams", August 2013
16. **Amirkhosra Karimi**, "Development of Lightweight Calcium-Magnesium based Panels (LCMP) as a thermal insulation for structures", July 2013.
17. **Sepideh Fadaei**, "Comparison of Progressive Collapse In Steel Buildings with I-Beams and Truss Beams", August 2012.
18. **Sepehr Alizadeh**, "Integration of Building Information Modeling and Laser Scanning in Construction Industry", July 2012. *(Co-supervisor Asst.Prof.Dr. Ozan Koseoglu)*
19. **Nariman Afzali**, "Ductile Behavior of Steel Beam to Column Connections", Jul 2012.
20. **Aria Aghajani Namin**, "Behavior of Arched and Cable-Stayed Bridges Subjected to Wind and Seismic Loading", June 2012.
21. **Onur Ejder**, "Comparison of Reinforced concrete framed buildings with Reinforced concrete buildings extended with Steel Frame", Jun 2012.
22. **Reza Jalali Larijani**, "Progressive Collapse Analysis of Two Existing Steel Buildings Using Linear Procedure", January 2012.
23. **Ahmed Zaid Shams-Al**, "Progressive Collapse Analysis of Four Existing Reinforced Concrete Buildings Using Linear Procedure", January 2012.
24. **Seyed Mehrdad Nourbakhsh**, "Inelastic Behavior of Eccentric Braces in Steel Structure", December 2011.
25. **Maryam Mansouri**, "Optimization of Selected 2-D Steel Truss Shapes Using a New Mathematical Formulation", August 2011.
26. **Mana Behnamasl**, "Comparison of the behaviour and failure pattern of curved and straight types of steel shell roof structures", February 2010.
27. **Alireza Afsharghotli**, "Sustainability and Steel Housing in North Cyprus and Mediterranean Region", September 2009.
28. **Sanaz Khoddam Abbassi**, "The weight efficiency of wind bracing in steel framed buildings", June 2009.
29. **Arash Farzam**, "Comparison of Steel Bracing Systems in terms of Ductility and Weight of the Structure", February 2009.
30. **Mani Z. Anaraki**, "Comparison and optimal design selection of steel and RC framed building based on life cycle costing", February 2008. *(Co-supervisor Asst.Prof.Dr. Abdulrezak Mohammed)*
31. **Cuneyt Ocal**, "Comparison of the international design codes for the analysis and design of structural frames", July 2005
32. **Mehmet Ozbilen**, "Inadequate applications of construction industry in North Cyprus and recommendations", January 2004
33. **Serife Bozkir**, "Feasibility of using structural steel in North Cyprus & Turkey", January 2003.

## **8 PhD THESIS**

1. **Mohammad Sehwal**, "Behavior of Hybrid and Homogeneous Hot-Rolled Cellular Steel Beams", April 2022.
2. **Hamed Rajabzadeh Gatabi**, "Assessment of seismic design parameters for moment resisting reinforced concrete frame retrofitted with eccentric bracing", January 2022. (*Co-supervisor Asst.Prof.Dr.Habib Akbarzadeh Bengar*).
3. **Mohsen Shahaki Kenari**, "Assessment of Two sets Intensity Measures of Ground Motion with Seismic Damage Indices of Masonry-infilled Steel Frames", May 2019.
4. **Mehdi Hosseinpour**, "Influence of CFRP confinement on bond behavior of steel bars embedded in concrete exposed to elevated temperatures", January 2018 (*Co-supervisor Asst.Prof.Dr.Habib Akbarzadeh Bengar*).
5. **Saeid Moazzam**, " Effect of Heavy Machinery Foundation on Surrounding Buildings ", May 2015. (*Supervisor Assoc.Prof.Dr. Zalihe Nalbantoglu, Co-supervisor Asst.Prof.Dr. Murude Celikag*)
6. **Hashem Alhendi**, "Parametric Study on Moment-Rotation Characteristics of Reverse Channel Connections (RCC) to Tubular Columns", February 2015.
7. **Sepanta Naimi**, "Behavior of Steel Reduced Beam Web (RBW) Connections with Multi-Longitudinal Voids", October 2013. (*Co-supervisor Asst.Prof.Dr. Amir A Hedayat*)
8. **Amir Ahmed Hedayat**, "Behaviour of Newly Proposed Steel Reduced Beam Web Connections", July 2009.

## **MSc and PhD THESIS CURRENTLY UNDER SUPERVISION**

### **MSc Thesis**

1. Guldal Pinar Yilmaz, ....., MSc Thesis

### **PhD Thesis**

1. **Mahmoud Eissa**, "Application of composite slab with galvanized steel deck in reinforced concrete frame", PhD Thesis. Expected to finish Feb 2024.
2. **Amir Hossein Azour**, "Investigation of Occupational Construction Accidents in North Cyprus and Recommendations for Safety Improvements and System Management", PhD Thesis. Expected to finish Feb 2024.
3. **Mehmet Evram**, "Ductile Behavior of Steel Extended End Plate and Flush End Plate Connection", PhD Thesis, Expected to finish Sep 2024.
4. **Onur Ejder**, "Dynamic Performance of Combined (mixed) frame structures", PhD Thesis. (*Co-supervisor Assoc.Prof.Dr.Mehmet Cemal Genes*).

## **ACADEMIC ACTIVITIES: COURSES, LECTURE NOTES, TEACHING AIDS, DEPARTMENTAL COMMITTEES**

### **LECTURE NOTES TEACHING AID**

CMPE 105	Introduction to Computer Usage	2000
CE 444/CIVL473	Steel Structures	2001
CE 221/CIVL222	Strength of Materials	2004
CE 544	Advance Topics in Steel Structures	2006
CE 644/CIVL574	Connections in steel structures	2005
MCE571/CIVL573	Assess. Repair & Strength of Struct.	2005
CIVL392	CE Construction	2010
CIVL575	Sustainability in Building Construction	2010
INSA222	Cisimlerin Mukavemeti	2014
CIVL410	Environmental Sustainability in Engineering	2021

## **COURSES TAUGHT**

### ***Undergraduate courses***

#### **UAE University:**

- 50715404 Structural Design IV for Architects, Steel Design  
50715403 Structural Design III for Architects, Reinforced Concrete Design  
MATU105 Applied Mathematics for Arts II  
CAII Computer Applications for Arts II

#### **Eastern Mediterranean University (EMU):**

- CMPE 105 Introduction to Computer Usage  
CIVL222 (CE 221) Strength of Materials  
CIVL374 (CE 444) Steel Structures  
CIVL473 Fundamentals of Steel Design  
CIVL392 Civil Engineering Construction  
INSA222 Cisimlerin Mukavemeti  
CIVL410 Environmental Sustainability in Engineering  
ARCH391/492 Architectural Department Design Studio, Final Year Design Project Studio

#### **Graduate courses (EMU)**

- CE 544 Advance Topics in Steel Structures  
CE 571 Assessment, Repair and Strengthening of Structures  
CIVL575 Sustainability of Building Construction  
CE 644 Connections in Steel Structures

### **Departmental Committees**

I took part in the following committees as member and coordinator (2000-present)

- 1) Undergraduate Program
- 2) Academic transfer
- 3) Department Strategy
- 4) Social Activities
- 5) New Master's Program
- 6) Undergraduate Curriculum Committee-ABET
- 7) Student Activities (Construction Club)
- 8) Summer Training
- 9) Publicity, Alumni and Publications
- 10) ABET Committee
- 11) Research and Student Assistants
- 12) Laboratory
- 13) News Bulletin
- 14) Library
- 15) Capstone Project

### **Faculty Committees and Duties**

- 1) Publications, Chair (2001-07)
- 2) Undergraduate Program (member, 2001-04)
- 3) ABET (member, 2001-04)
- 4) ABET (member, 2020-21)
- 5) Elected member representing Assistant Professors in the Faculty of Engineering Board (2003-04)
- 6) Engineering Faculty representative for Publicity (2004-05)

- 7) CE Department representative for Publicity (AcademicYear 2004-05)
- 8) Elected member representing Associate Professors in the Faculty of Engineering Board (2016-18)

### **Research Centers and Institutes**

Member of the Executive Board in the following:

- 1) BSRC, Building Sciences Research Centre (2001-present)
- 2) ATRDI, Advance Technologies Research and Development Institute (2004-06)
- 3) EMU Continuing Education Centre, Member of the Advisory Board, (2004-06)

### **University Committees**

ADHOC (2003-2004)

## **OCCUPATIONAL HEALTH AND SAFETY RELATED CONFERENCES AND TRAININGS**

My educational experience, which started as a student teaching assistant in 1983, continued with the trainings I received and delivered during my graduate education and professional industrial working life. I started to work in university as an academic in 1997 as a part-time instructor. Since 2000 I have been working as a full-time faculty member in university. Besides academic work through the rotating funds of university and the Technopark company of Robust Ltd, where I am a director, I have been doing consultancy for projects. These activities include engineering project consultancy, especially OHS consultancy and training. Various presentations and trainings are also made on a voluntary basis, especially to professional chambers and organizations.

### **Training/Seminar Experiences:**

1. Acting as the OHS Consultant of TRNC Ministry of Labor and Social Security, contributed to the renewal of the OHS-related regulation and preparation of the new regulations since 2018. Involved in providing informative presentations and trainings to NGOs, State institutions regarding the renewed and new bylaws.
2. Providing OHS Risk analysis, consultancy and training to various companies through the EMU Technopark Company ROBUST Ltd, where I am the director. (COOP Headquarters-Nicosia, EMU Academic Staff, etc.)
3. Delivering OHS courses and trainings via EMU CEC (Continuous Education Centre) (e.g. CTBCA)
4. OHS Trainer at the "OHS Specialist Training Program" for the TRNC, organized by the TRNC Ministry of Labor and Social Security, in 2011 and 2015.
5. Providing training to the members of the Union of Chambers of Turkish Cypriot Engineers and Architects on the EU supported "Occupational Health and Safety in Construction Management" in the capacity of "local expert-trainer".
6. Providing training to the members of the Cyprus Turkish Building Contractors Association on "Health and Safety Regulations and Management System in the Construction Industry".
7. Providing training to the members of the Union of Chambers of Cyprus Turkish Engineers and Architects on "Occupational Health and Safety in Construction Site Management".
8. Processing Occupational Health and Safety issues within the scope of the following courses given at the University.

- CIVL392 Civil Engineering Construction
  - CIVL473 Fundamentals of Steel Design
  - CIVL410 Environmental Sustainability in Engineering
  - CIVL575 Sustainability in Building Construction
9. Processing occupational health and safety issues in graduate theses and sharing this information in international conference articles. Related theses and publications are as follows.
- **Amir Hossein Azour**, “Investigation of Occupational Construction Accidents in North Cyprus and Recommendations for Safety Improvements and System Management”, PhD Thesis (ongoing)
  - **Abdul Rahman Obeid**, Thesis Title: “Health and Safety in Construction Industry of Lebanon”, February 2015
  - **Mehmet Ozbilen**, “Inadequate applications of construction industry in North Cyprus and recommendations”, January 2004
  - **Celikag, M** and M. Ozbilen, “Health and Safety Matters in Construction Industry in North Cyprus”, Proceedings of the 8th International Congress on Advances in Civil Engineering, ACE2008, 15 – 17 September 2008, Gazimagusa, North Cyprus.

#### **OHS and Supervisor Experience on Site:**

1. **2016-17:** Working as a control OHS Specialist in the construction of the Cooperative Central Bank Central Building
2. **1998-2000:** Middle East and Gulf Structural Consultant Engineer, Dubai, United Arab Emirates: for 2 years, many international and local construction companies have been provided with technical and site information on the use of structural steel, as well as consultancy services on occupational health and safety. During this period, seminars were organized for local contractors, subcontractors and engineers on the issues related to the "correct use of Structural Steel in the design and construction phases and the Construction Design and Management Regulation".
3. **1992-1993:** Site Civil Engineer, Grimsby, England. Worked at Ciba Geigy Pharmaceutical Plant Construction Site for 15 months as a site engineer/supervisor. During this period, Occupational Health and Safety trainings and inspections were also carried out at the Construction Site.
4. **1990-1991:** Structural/Architectural Coordinator, Fisons Factory, Singapore. Office/site engineer for 6 months

#### **OTHER ACTIVITIES**

- 2021 Acting as Civil Engineering (Structural) Consultant to Nicosia Municipality for the Pedios River / Kanlıdere Rehabilitation and Linear Park Project supported by Europeaid
- 2021 Remedial work for UNICAP Enterprises existing Tomatoes Greenhouse and design of the new extension works
- 2018-19 Restoration and Conversion of 4 old single story buildings in Magusa walled city to two story using structural steel framing. Project completed but did not go for approval since the client changed her mind due to available funding and restored the buildings as single floors.
- 2018-2020 **Independent expert:** Evaluating Marie Skłodowska-Curie Individual Fellowships H2020.
- 2016-17 Taking part in Cyprus Turkish COOP Central Bank Building (10 story RC Building) Project Control Team as Health and Safety Expert.
- 2016 Structural design of the 2 blocks 8 storeys 6500 m<sup>2</sup> Steel Framed Dormitory Building in Gazimagusa (project was not constructed due to disputes between client and contractor)
- 2007-13 **Independent Expert:** Evaluating projects for the **Research Fund for Coal and Steel (RFCS)**

#### European Union Project Funding

- 2015-18 **Green building project-** EMU: Acted as the Civil and Structural Engineering Consultant for the university. Whole project was managed, designed and supervised by employees of Eastern Mediterranean University. Hence the project documents have the names of people from Project department of EMU. Project completed but not constructed yet due to lack of funding. The project was prepared so as to apply for the **LEED Platinum Certification**.
- 2015-16 As technical affairs advisor to Rector's office I got involved in the design and control of the construction of three steel framed lift shafts for existing structures, additional steel framed small structures and steel staircases at the roof of two dormitory buildings, several refurbishment projects for existing buildings.
- 2009-16 Jury member of the Property North Cyprus awards in North Cyprus.
- 2012-13 Member of the International Jury – Student Projects of Architectural Department
- 2012 Structural design of 6 story, 22000 m<sup>2</sup> reinforced concrete framed dormitory building at EMU, Gazimagusa, North Cyprus
- 2008-12 Structural design, material procurement, managing the sub contracts for construction of the steel framed, 600 m<sup>2</sup>, residential building (own house) in Magusa Bogaz, Cyprus. (Cost: 300,000 GBP)
- 2009-11 Structural design, Preparation of Contract Documents and Supervision of Construction of The Heavy Structures Laboratory, Dept. of Civil Eng., EMU (120,000 USD)
- 2002-03 Structural design, material procurement, managing the sub contracts for construction of the reinforced concrete framed, 150 m<sup>2</sup> residential ground floor flat, Gonyeli-Nicosia, North Cyprus. (Cost: 35,000 GBP)
- 1996-97 Structural design of RC framed 7 storey+2 basement building, Al-Ain, UAE

#### **VOLUNTARY AND PROFESSIONAL SERVICE TO SOCIETY**

A summary of some of the work involved are given below:

- Through BSRC, Individually and through the TEKNOPARK company **ROBUST Engineering and Consultancy Ltd.** I acted as a consultant to numerous projects and also involved in numerous structural design work.
- After the completion of the EU Project on Health and Safety in Construction Site Management there was more pressure on North Cyprus Workers Office to finalize the draft by laws on Occupational Health and Safety (OHS) and also to organize a certificate course where those who are qualified to attend can be trained to become experts of OHS and they can do risk analysis at work places and also monitor OHS. As three partners of **ROBUST Ltd.** we delivered about 40 percent of the Occupational Health and Safety Expert courses on behalf of the Turkish republic of North Cyprus Workers Office (part of Ministry of Social Security and Work) in March 2011.
- **ROBUST Ltd** is currently involved in Risk Assessment, OHS monitoring, Quality Assurance Management, structural refurbishment, etc., of prominent companies in North Cyprus, including AKSA Electricity, Binbircesit, Demirbag, Isil Reklam, Arkadas Pastahanesi, BEM (Bogaz Endustri Madencilik) etc. Furthermore, it is involved in consultation, analysis and design of projects, particularly steel framed structures.
- **Sustainable Development Association, Nicosia-Cyprus:** Founding member and Executive Committee member. Among the activities of this association are projects that are granted by the European Union.
- **Magusa City and Ecology Platform:** Founding member. Platform is established with the objective of

fighting against various issues relating to Magusa City; construction work in prohibited areas, such as, very close to Ayluga Wetland, constructing high rise buildings in the absence of urban plan.

- **Chamber of Civil Engineers (KTIMO):** There is close contact with KTIMO. Over the years I was invited as a speaker to various KTIMO seminars and conferences, twice represented KTIMO in European Council of Civil Engineers meetings in Athens (2001) and London (2010) (ECCE), took part in various committees formed to deal with local legislations and problems and finally I was one of the committee members for establishing the “Uygulamaci Uye” bylaw (similar to Yetkin Muhendis in Turkey and Chartered Engineer in UK). In 2018 I got the EU sponsored Contract via KTIMO and Prepared the **EUROCODES Booklet** (Turkish Language) for the use of Civil Engineers.