

2014-2015 ANNUAL REPORT



Karadeniz Technical University Student Chapter of the Earthquake Engineering Research Institute

Report Date: June 24, 2015

This report summarizes the membership and activities conducted by the Karadeniz Technical University Student Chapter of the Earthquake Engineering Research Institute during the 2014-2015 academic year.

MISSION & GOALS

The objective of this Chapter is to provide the opportunity for students to develop leadership and interpersonal skills, and gain practical experience within the earthquake engineering fields. The chapter serves the KTU students to create an opportunity to learn about designing and building a structure that will perform well under earthquake simulation. Through our seismic design structures, we hope to respectably represent our city and school and to demonstrate our understanding of earthquake ramification.

MEMBERSHIP

The Karadeniz Technical University Student Chapter had a total of 8 members in 2014-2015.

OFFICERS

Role	Name	EERI Member Number	Email	Student Status
President	Alper Ulsan	17515	alperulsan_@hotmail.com	Undergraduate student
Vice President	Hasan Arslan	17513	hasanarslan90@hotmail.com	Undergraduate student
Treasurer	Doruk Araplili	17511	doruk6192@gmail.com	Undergraduate student
Membership Chair	Ulku Can	17512	ulku--55@hotmail.com	Undergraduate student



Board meetings were held on a monthly basis in order to discuss:

- the scheduling of events
- financial issues to be resolved
- future and currently planned events
- organizing and preparing agendas for the seismic design team

FACULTY & INDUSTRY ADVISORS

Role	Name	EERI Member Number	Email
Faculty Advisor	Serhat Demir	17516	s.demir@ktu.edu.tr
Faculty Advisor	Aysegul Durmus	17540	aysgld@hotmail.com



MEMBERS

Name	EERI Member Number	Email	Student Status
Alper Ulsan	17515	alperulsan_@hotmail.com	Undergraduate student
Hasan Arslan	17513	hasanarslan90@hotmail.com	Undergraduate student
Doruk Araplili	17511	doruk6192@gmail.com	Undergraduate student
Ulku Can	17512	ulku--55@hotmail.com	Undergraduate student
Hakan Cakmak	17514	hakcak@gmail.com	Undergraduate student
Gorkem Yigitkaya	17543	gorkemyigitkaya@gmail.com	Undergraduate student
Serhat Demir	17516	s.demir@ktu.edu.tr	Graduate student
Aysegul Durmus	17540	aysgld@hotmail.com	Graduate student

BUDGET & FINANCIALS

Sponsor Name/Organization	Contact Person	Amount
Mustafa Eksi Insaat		6000 \$
STY Insaat		2000\$
KTU		1500\$
Ilgaz Insaat		1000\$
Usta Insaat		800\$
TTSO		500 \$

CHAPTER ACTIVITIES

Regular chapter activities included 2015 Seismic Design Competition, Technical visits, Courses, and Guest Seminars.

REGULAR CHAPTER MEETINGS

A general chapter meeting was held during Fall semester. During this meeting, officers introduced attendees to the history and goals of the Student Chapter, discussed future chapter events, and recruited for the Seismic Design Team.

Guest Seminar

Date: 23 April 2015
Topic: Earthquake Resistant Structural Design
Speaker: Prof.Dr.Ing. Ahmet Durmus

Technical Visit

Date: 14 February 2015
Construction site: Akyazı stadyumu
Construction supervisor: Istemihan Cosgun

Course: SAP2000

Date: 28 December 2015
Room: Bilgisayar Salonu
Lecturer: Serhat Demir

SEISMIC DESIGN COMPETITION TEAM

This was the first year the Karadeniz Technical University was represented in the competition. Undergraduate students were trained in structural vibrations. They were also taught to model in SAP2000 and perform time history analysis. The team worked hard to improve their design and submit their ideas for an effective structural and damping system.

SDC Team Members.

Name	EERI Member Number	Email	Role
Alper Ulsan	17515	alperulsan_@hotmail.com	Team Captain
Hasan Arslan	17513	hasanarslan90@hotmail.com	Construction lead
Doruk Araplili	17511	doruk6192@gmail.com	Architecture lead
Ulku Can	17512	ulku--55@hotmail.com	Construction team members

SDC Team Financial Sponsors

Name	Email	Amount	Note
Mustafa Eksi Insaat	www.mustafaeksi.com	6000 \$	
STY Insaat	www.styinsaat.com.tr	2000\$	
KTU	www.ktu.edu.tr	1500\$	
Ilgaz Insaat	www.ilgazinsaat.com	1000\$	
Usta Insaat	www.ustagrup.com	800\$	
TTSO	www.ttso.org.tr	500 \$	

Team results and lessons learned

The team's rankings 5th in the competition and 4th at the performance predictions.

The team successfully understood the difficulties encountered in seismic design and importance of structural system and construction. Construction of the building to be much more complex than expected. Time history analysis showed a similar results with tests.

ELECTION & ELECTION RESULTS

An election for officers for the 2015-2016 academic year will held in September 2015. Then the new officers appointed to the Chapter board will announced.