

2015-2016 ANNUAL REPORT

Karadeniz Technical University Student Chapter of the Earthquake Engineering Research Institute



Report Date: April 26, 2016

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

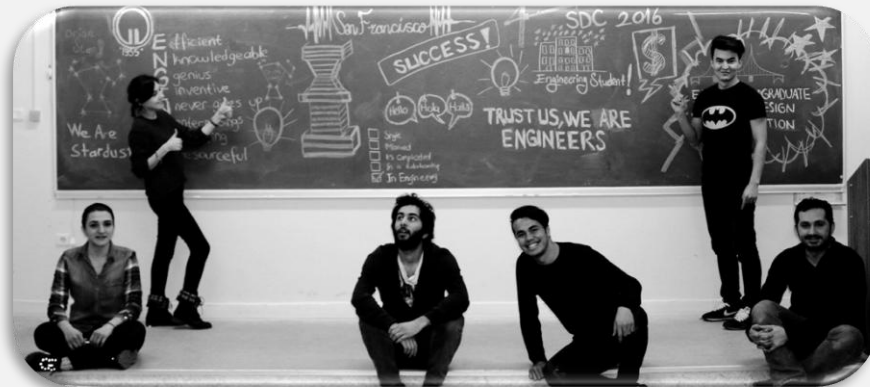
The objective of this Chapter is to provide the opportunity for students to develop leadership and interpersonal skills, and gain practical experience within the earthquake engineering fields. The chapter serves the KTU students to create an opportunity to learn about designing and building a structure 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 11 members in 2015-2016.

OFFICERS

Role	Name	EERI Member Number	Email	Student Status
President	Hasan Arslan	17513	hasanarslan90@hotmail.com	Undergraduate student
Vice President	Ulku Can	17513	ulku--55@hotmail.com	Undergraduate student
Treasurer	Abbas Jafari	18365	Abbas-jafari@yahoo.com	Undergraduate student
Membership Chair	Javed Shadan	18364	Javed_1372@yahoo.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 Ulusan	17515	alperulusan_@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	Ph.D
Aysegul Durmus	17540	aysgld@hotmail.com	Ph.D
Abbas Jafari	18365	Abbas-jafari@yahoo.com	Undergraduate student
Javed Shadan	18364	Javed_1372@yahoo.com	Undergraduate student
Yagmur Ozyurt		ozyurtyagmur@gmail.com	Undergraduate student

BUDGET & FINANCIALS

Sponsor Name/Organization	Contact Person	Amount

CHAPTER ACTIVITIES

Regular chapter activities included 2016 Seismic Design Competition, Courses and Meetings.

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.

Meeting

Date: 18 September 2015

Topic: Introductory Meeting of EERI Karadeniz Technical University Student Chapter

Speaker: Hasan ARSLAN-Aysegul DURMUS - Serhat DEMIR

Meeting

Date: 01 October 2015

Topic: 2016 Seismic Design Competition

Speaker: Team Members

Course: SAP2000

Date: 18-19-20 December 2015

Room: Bilgisayar Salonu

Lecturer: Serhat Demir

Course: ETABS

Date: 10-11-12 January 2016

Room: Bilgisayar Salonu

Lecturer: Suleyman Istemihan Cosgun

Technical Visit

Date: 17 February 2016

Construction site: Beşirli Tüneli

Construction supervisor: Sinan DURMUS

SEISMIC DESIGN COMPETITION TEAM

This was the second 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 system.

SDC Team Members.

Name	EERI Member Number	Email	Role
Hasan Arslan	17513	hasanarslan90@hotmail.com	Team Captain
Ulku Can	17513	ulku--55@hotmail.com	Architecture lead
Abbas Jafari	18365	Abbas-jafari@yahoo.com	Construction lead
Javed Shadan	18364	Javed_1372@yahoo.com	Construction lead

SDC Team Financial Sponsors

Name	Email	Amount	Note
KTU	www.ktu.edu.tr	1000\$	
TTSO	www.ttso.org.tr	1000\$	
IMO	www.imo.org.tr	1000\$	

Team results and lessons learned

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.

The team's rankings 7th in the competition, 5th at the performance predictions and 3rd at the architecture. The structure successfully passed the all three ground motions. Even if we obtain maximum floor area and successfully passed the all three ground motions, our team accomplished 7th position because of the building weight. So, we will design light enough building for minimizing the cost for the materials in next years.

ELECTION & ELECTION RESULTS

An election for officers for the 2016-2017 academic year will held in September 2016. Then the new officers appointed to the Chapter board will announced.