



## 2016-2017 ANNUAL REPORT

### University of Pontificia Universidad Católica Madre y Maestra - Student Chapter

of the Earthquake Engineering Research Institute

Report Date: August 04, 2017

This report summarizes the membership and activities conducted by the University of Pontificia Universidad Católica Madre y Maestra Student Chapter of the Earthquake Engineering Research Institute (abbreviated as PUCMM-EERI Student Chapter) during the 2016-2017 academic year.

#### MISSION & GOALS

The objective of the Pontificia Universidad Católica Madre y Maestra student chapter is to develop the knowledge about seismic design and sustainable structures in order to stimulate investigation, promote new technologies and techniques, and to improve Seismic Engineering in the Dominican Republic.

#### MEMBERSHIP

The University of Pontificia Universidad Católica Madre y Maestra Student Chapter had a total of 6 members in 2016-2017.

#### OFFICERS

The Board consisted of the following members:

Role	Name	EERI Member Number	Email	Student Status
President	<b>Javier Crespo</b>	<b>18931</b>	<b>javiereca146@hotmail.com</b>	Undergraduate student
Vice President	<b>Casandra Nunez</b>	<b>18979</b>	<b>casandranuras@gmail.com</b>	Undergraduate student
Secretary	<b>Marivid Rijo</b>	<b>18977</b>	<b>marivid_13@hotmail.com</b>	Undergraduate student
Treasurer	<b>Julio Pimentel</b>	<b>18980</b>	<b>jcpimentel26@gmail.com</b>	Undergraduate student
Public Relations Chair	<b>Esmil Medina</b>	<b>18981</b>	<b>esmil007@gmail.com</b>	Undergraduate student
Social Chair	<b>Carlos Svelti</b>	<b>18978</b>	<b>carlossvelti@hotmail.com</b>	Undergraduate student

Board meetings were held in the PUCMM architecture workshop.

## FACULTY & INDUSTRY ADVISORS

1. Ing. Jaruselky Perez Cuevas.  
Geotechnical Engineer.  
E-mail: [jaruselkyperezcg@gmail.com](mailto:jaruselkyperezcg@gmail.com)
2. Ing. Ashley Morales Cartagena.  
Geotechnical Engineer.  
ID # 18923, E-Affiliate.  
E-mail: [ash.gmc@gmail.com](mailto:ash.gmc@gmail.com)
3. Ing. Leonardo Pockels Diaz.  
Structural Engineer.  
ID # 18927, E-Affiliate.  
E-mail: [leonardo\\_pockels@hotmail.com](mailto:leonardo_pockels@hotmail.com)  
Tel.: 809-535-0111

## MEMBERS

A complete list of members is shown below.

<b>Name</b>	<b>EERI Member Number</b>	<b>Email</b>	<b>Student Status</b>
<b>Javier Crespo</b>	<b>18931</b>	<b>javiereca146@hotmail.com</b>	Undergraduate student
<b>Marivid Rijo</b>	<b>18977</b>	<b>marivid_13@hotmail.com</b>	Undergraduate student
<b>Esmil Medina</b>	<b>18981</b>	<b>esmil007@gmail.com</b>	Undergraduate student
<b>Jean C. Dominguez</b>	<b>19084</b>	<b>jeancarlosdominguez@gmail.com</b>	Undergraduate student
<b>Julio Pimentel</b>	<b>19080</b>	<b>jcpimentel26@gmail.com</b>	Undergraduate student
<b>Marcos Hodge</b>	<b>19047</b>	<b>Kaiqui02@gmail.com</b>	Undergraduate student
<b>Marcos Paniagua</b>	<b>19057</b>	<b>mepy.27@hotmail.com</b>	Undergraduate student
<b>Victor Luna</b>	<b>19056</b>	<b>victorluna023@gmail.com</b>	Undergraduate student
<b>Marleni De los Santos</b>	<b>19099</b>	<b>marlidls0803@gmail.com</b>	Undergraduate student
<b>Wilma Jerez</b>	<b>19050</b>	<b>wilmajerezortiz@hotmail.com</b>	Undergraduate student

<b>Casandra Nuñez</b>	<b>18979</b>	<b>casandranuras@gmail.com</b>	Undergraduate student
<b>Carolina Garcia Vicente</b>	<b>19386</b>	<b>carolina_gv94@hotmail.com</b>	Undergraduate student
<b>Luz Ureña</b>	<b>19340</b>	<b>luzpotentini15@hotmail.com</b>	Undergraduate student
<b>Carlos Svelti</b>	<b>18978</b>	<b>carlossvelti@hotmail.com</b>	Undergraduate student



From left to right: Leonardo Pockels, Jean Dominguez, Carlos Svelti, Wilma Jerez, Luz Ureña, Marcos Paniagua, Marivid Rijo, Julio Pimentel, Casandra Nuñez, Marleni De lo Santos, Marcos Hodge, Ashley Morales, Javier Crespo, Esmil Medina and Carolina Garcia.

FINANCIAL SPONSORS OF THE PONTIFICIA UNIVERSIDAD CATOLICA MADRE Y MAESTRA (PUCMM) STUDENT CHAPTER.

<b>Sponsor Name/Organization</b>	<b>Contact Person</b>	<b>Amount</b>
EPS	Luis Menicucci	US\$ 1474
BANRESERVAS	William Read	US\$1600
Inversiones Garcia Vicente, SRL	Francia Vicente	US\$948.17
Cemex Dominicana	Luis Jose Lopez Mena	US\$800
CC Andamios, SRL	Edmundo Gracia y Maira De Gracia	US\$574.22

## CHAPTER ACTIVITIES

### Activities 2016-2017:

- EERI-PUCMM Student Chapters meetings in order to prepare for the competition, August 2016- March 2017.
- Seismic Design Competition, March 2017.
- Welcome meeting for the new members of the EERI-PUCMM Student Chapter, May 2017.
- Structural Dinamic Workshop, September 2017.

### REGULAR CHAPTER MEETINGS

In our regular meetings we discussed :

- Responsibility of each Student Chapter Member.
- New Activities plan.
- Follow-Up planned activities.

### Special Activity- *Use of geophysical methods in Civil Engineering.*

During the summer of 2016 we prepared a special earthquake conference held by Dr. Jaruselsky Perez. He presented a doctoral thesis named "Use of Geophysical Methods in Civil Engineering". During the conference Mr.Perez presented an important technique to analyze the mass and the properties of the soils according to seismic waves.

## SEISMIC DESIGN COMPETITION TEAM

Despite the lack of resources in our country, the PUCMM team qualified for the 2016 Seismic Competition against 32 out-standing Universities. As the first dominican student chapter we decided to name our project SDQ Tower as an honor to Dominican Republic. This project consist in a 29 - story building, where the first three storeys were destined to commercial purpose and the remaining to office spaces.

### SDC Team Members

A complete list of members is shown below.

<b>Name</b>	<b>EERI Member Number</b>	<b>Email</b>	<b>Role</b>
<b>Javier Crespo</b>	<b>18931</b>	<b>javiereca146@hotmail.com</b>	Undergraduate student
<b>Casandra Nuñez</b>	<b>18979</b>	<b>casandranuras@gmail.com</b>	Undergraduate student
<b>Marivid Rijo</b>	<b>18977</b>	<b>marivid_13@hotmail.com</b>	Undergraduate student
<b>Julio Pimentel</b>	<b>18980</b>	<b>jcpimentel26@gmail.com</b>	Undergraduate student
<b>Esmil Medina</b>	<b>18981</b>	<b>esmil007@gmail.com</b>	Undergraduate student

<b>Carlos Svelti</b>	<b>18978</b>	<b>carlossvelti@hotmail.com</b>	Undergraduate student
<b>Marcos Paniagua</b>	<b>19057</b>	<b>mepy.27@hotmail.com</b>	Undergraduate student
<b>Víctor Luna</b>	<b>19056</b>	<b>victorluna023@gmail.com</b>	Undergraduate student
<b>Luz Ureña</b>	<b>19340</b>	<b>luzpotentini15@hotmail.com</b>	Undergraduate student
<b>Marcos Hodge</b>	<b>19047</b>	<b>Kaiqui02@gmail.com</b>	Undergraduate student
<b>Wilma Jerez</b>	<b>19050</b>	<b>wilmajerezortiz@hotmail.com</b>	Undergraduate student
<b>Marleni de los Santos</b>	<b>19099</b>	<b>marlids0803@gmail.com</b>	Undergraduate student
<b>Carolina García</b>	<b>19386</b>	<b>carolina_gv94@hotmail.com</b>	Undergraduate student
<b>Jean Domínguez</b>	<b>19084</b>	<b>jeancarlosdominguez@gmail.com</b>	Undergraduate student

### SDC Team Financial Sponsors

A list of financial sponsors for the SDC team.

<b>Name</b>	<b>Email</b>	<b>Amount</b>	<b>Note</b>
Luis Menicucci	lmenicucci@eps.int.com	US\$1474	----
Francia Vicente	fvicentea@hotmail.com	US\$948.17	----

### Team results and lessons learned

Thanks to the competition we had the opportunity to predict the behavior of a structure during an earthquake. We designed and built a balsa - wood structure that was able to resist the three seismic events. We learned the importance of each structural element and also developed the ability of analyzing the impact of an earthquake in a structure during the seismic event.

### ELECTION & ELECTION RESULTS

An election for officers for the 2017-2018 academic year was held in May 26, 2017. The table below shows the new officers appointed to the Chapter board who will take office on September, 2017.

<b>Role</b>	<b>Name</b>	<b>EERI Member Number</b>	<b>E-mail</b>	<b>Student Status</b>
<b>President</b>	<b>Wilma Jerez</b>	<b>19050</b>	<b>wilmajerezortiz@hotmail.com</b>	Undergraduate student
<b>Vice President</b>	<b>Relvin Colon</b>	<b>19529</b>	<b>relvincolon@gmail.com</b>	Undergraduate student
<b>Secretary</b>	<b>Laura Céspedes</b>	<b>19528</b>	<b>ceperiana06@gmail.com</b>	Undergraduate student
<b>Treasurer</b>	<b>Jose Caraballo</b>	<b>19531</b>	<b>jose.amable17@gmail.com</b>	Undergraduate student
<b>SDC Coordinator</b>	<b>Luz Ureña</b>	<b>19340</b>	<b>luzpotentini15@hotmail.com</b>	Undergraduate student
<b>Relations and communication coordinator</b>	<b>Marcos Hodge</b>	<b>19047</b>	<b>Kaiqui02@gmail.com</b>	Undergraduate student
<b>Public relation</b>	<b>Maria Jiminian</b>	<b>19517</b>	<b>marialuisajiminian@gmail.com</b>	Undergraduate student

<b>Corporate relation</b>	<b>Claudia Deveaux</b>	<b>19514</b>	<b>claudiadeveaux25@gmail.com</b>	Undergraduate student
<b>Webmaster</b>	<b>Gustavo Diaz</b>	<b>19524</b>	<b>gustavo12adolfod@gmail.com</b>	Undergraduate student
<b>Recruitment officer</b>	<b>Laura Rodriguez</b>	<b>19526</b>	<b>lauramrodrigueza@gmail.com</b>	Undergraduate student

## LIST OF ATTACHMENTS

+Flier of the conference : "Use of Geophysical Methods in Civil Engineering".





+Pucmm Student chapter assembling the SDQ Tower for the competition 2016-2017:



From left to right: Esmil Medina, Luz Ureña, Julio Pimentel

+SDQ Tower Architectural design (front facade):



SDQ Tower

+SDQ Tower assembled and ready for shipping:



From left to right: Marcos Paniagua, Carolina Garcia, Jaruselsky Perez, Ashley Morales, Marleni De Los Santos, Victor Luna, Julio Pimentel, Esmil Medina, Leonardo Pockels.

+Pontificia Universidad Católica Madre y Maestra team at the competition stand:



From left to right: Javier Crespo, Ashley Morales, Wilma Jerez, Marivid Rijo, Luz Ureña, Esmil Medina, Marcos Hodge, Carlos Svelti, Casandra Nuñez, Julio Pimentel, Marleni De Los Santos, Leonardo Pockels, Marcos Paniagua.