

University of Puerto Rico- Mayagüez Student Chapter of American Meteorological Society





2006-2007 Report and Aplication Form for the Local Chapter of the Year Award



UPRM Student Chapter Annual Report 2006-2007

University of Puerto Rico- Mayagüez Meteorological Society of Puerto Rico Student Chapter of the AMS Department of Physics Box 9016 Mayagüez, Puerto Rico 00680

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© Copyright, April 2007 Report prepared by Yaítza Luna-Cruz (President) and Luis D. Padilla-Bauzá (Vice-President) Photos by José Conde, Denisse Ramírez and Carlos Anselmi Translation by Andrés Arias and Yaítza Luna Revision by Carlos U. Pabón Ortiz, PhD

Introduction

Since February 16, 2006 a group of students highly interested in Atmospheric Sciences and Meteorology set themselves a goal to create the first Student Chapter of the American Meteorological Society in the Caribbean. The University of Puerto Rico at Mayagüez (UPRM) Student Chapter of the AMS, also known as the Meteorological Society of Puerto Rico, was formally established on April 19, 2006. The Chapter currently has 40 active members, of which 17 are females, 90% are from the Faculty of Arts & Sciences and the remaining from the College of Engineering. The chapter includes the atmospheric science and meteorology faculty, undergraduate and graduate students, and atmospheric climatology serves the sciences, and physical oceanography community of Puerto Rico. The chapter provides service and educational roles by sponsoring lectures, seminars and workshops; and atmospheric & meteorological demonstrations for the college and extra-mural communities; and also, providing Science Advisors for K-12 students and teachers.

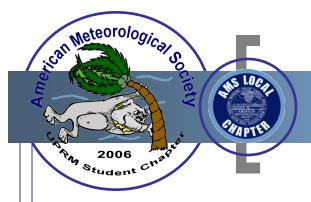
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In the past year our Student Chapter offered to its members the opportunity to meet Atmospheric Sciences and Meteorology professionals, with the objective for an exchange of ideas and to find the different job and careers opportunities available for upcoming students. We also helped our members with the development of their communication and team work skills. We showed the diversity of disciplinary areas related to meteorology, and examples of the opportunities for pursuing graduate studies. Also, we tried throughout all our activities to improve the relationship between our student members and the faculty members. We certainly can say that our Chapter was successful on the development of a high leadership level between our members.

During the 2006-2007 academic year we had the opportunity to visit different Schools promoting an interest into the Atmospheric Sciences between K-12 children and young university students. Presentations about Hurricanes and Climate Change were discussed on the school visits. During the 2006 Hurricane Season we were invited by a local department store, Sam's Club, to give a talk about hurricane preparedness for the general public. Our Chapter also participated with the national AMS in the distribution of the *Severe Weather Awareness*



Posters in all our educational activities. Our most important community service activity was the celebration of the first Weather Fest in Puerto Rico. In this activity more than 300 students, middle school teachers and general public enjoyed a diversity of atmospheric sciences presentations, science demonstrations and posters, at the UPRM, well organized into an educational experience. We are also aware about our environment, and share everybody else's concern to conserve natural resources and save the Planet. That's the reason why we decided to take action, and with the collaboration of local and statewide government agencies, families and private organizations, organized a clean-up day at Bahía Ballena Beach, which is located at the southern part of the Island. With this activity we help our environment, but we help our people allowing them to enjoy our natural resources. As part of the Planet Earth Month celebration, Sam's Club invited us again for an exhibition on Climate Change and Global Warming. The objective was to raise awareness about a problem that affects each one of us.

Finally, in the past year our Chapter made some contributions to the national AMS. First, we established as a requirement that to join our society, candidates need to be also a national member. Right now all members are also members of the AMS. Second, we help with the distribution of 100 Severe Weather Awareness Posters. Third, we submitted an abstract and displayed a poster on the 87th AMS Annual Meeting, in which we obtained a Second Place in the Student Chapter poster competition. During the meeting we participated with a delegation of 9 students. At last, but not least, during our Weather distributed information, brochures Fest we and membership applications of the national AMS to all the participants.

Chapter Officers



Yaítza Luna-Cruz President Department of Physics



Luis D. Padilla-Bauzá Vice- President Department of Physics



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Odalys Martínez Treasurer Department of Physics



Waleska Muñiz Secretary Department of Physics



Eduardo García Webmaster Department of Electrical Enaineeriona



José Conde Vocal Department of Mathematics



David Sánchez Vocal Department of Mathematics



Carlos Anselmi Vocal Department of Physics



Ernesto Rodríguez Vocal Department of Physics



Faculty Advisors



Carlos U. Pabón-Ortiz, PhD (1994) City College of New York – Atmospheric Science Associate Professor – Physics Specialty: Atmospheric Physics Principal Advisor



Hector J. Jimenez-González, PhD

(1992) Massachusetts Institute of Technology – Physics Actual Director of the Department of Physics Atmospheric Sciences and Meteorology Director Specialty: Remote Sensing/Solid State/Magneto-Optics **Collaborator**



Mark R. Jury, PhD (1984) University of Cape Town - Physical Oceanography Associate Professor – Physics Specialty: Meteorology Collaborator



Members Roster

Name

- 1. Ángel Adanes-Corraliza
- 2. Thais Alicea-González
- 3. Carlos M. Anselmo-Molina
- 4. Andres Arias-Matos
- 5. José G. Conde-Cruz
- 6. Nadja O. Cintron-Frangui
- 7. Leira Cuadrado-Caraballo
- 8. Alexis Cruz-Benítez
- 9. Idamis Del Valle-Martínez
- 10. Néstor Flecha-Díaz
- 11. Eduardo García-Casañas
- 12. Cristimer González-Jorge
- 13. Daniel Gutiérrez-Velásquez
- 14. Nathan Hernández-Cuevas
- 15. Yaítza Luna-Cruz
- 16. Anguie Marchany-Rivera
- 17. Janice M. Maldonado-Jaime
- 18. Odalys Martínez-Sánchez
- 19. Maria del Mar Marrero
- 20. Luis O. Miami-López
- 21. Wildalisse Méndez-Rodríguez
- 22. Waleska Muñiz-Arroyo
- 23. David Navarro-Sanabria
- 24. Gabriel Olavaria-Rivera
- 25. Luis D. Padilla-Bauzá
- 26. Sebastián Pérez-Colon
- 27. Héctor Pérez-Pérez
- 28. José Pérez-Sanabria
- 29. Diana C. Prado-Garzón
- 30. Jessica Reyes
- 31. José A. Rivera-Otero
- 32. Alethia Rodríguez-Pérez
- 33. Ernesto Rodríguez-Fernández
- 34. David Sánchez-Rivera
- 35. Patricia Sánchez-Rodríguez
- 36. Edil Sepúlveda-Carlo
- 37. Keyla Sepúlveda-Irrizarry
- 38. Oscar Venegas-Hermina
- 39. Emmanuel Martínez-Santana

Major

Physics Geology Physics **Physics Mathematics** Physics **Physics** Geology Physics Physics **Electrical Engineering Physical Science Physical Science** Economy Physics **Physics** Physics **Physical Science** Physics Economy **Physics** Physics **Physical Science Computer Engineering Physics** Art Theory **Physics Computer Science Physical Science Physics** Physics Physics **Physics**

- Computer Science Physics
- Geology
- Physics
- Mechanical Engineering Physical Science



Summary of Past Happenings

May 2006 through December 2006



Summer Internship 2006

During the summer of 2006, local chapter proponent students and some future members participated in very important research programs on various atmospheric related topics. During the past three years the Atmospheric Sciences and Meteorology Program of the Physics Department, in a cooperative agreement with NOAA, sponsored the summer internship with opportunities to work at the NWS San Juan Forecast Office, and the National Hurricane Center in Miami, and amid other research centers on Campus.



During summer internship at NWS



Students working as part of the Summer Internship

3rd Atmospheric Sciences and Meteorology Symposium

As part of the Summer Internship on August 2006, 23 student members of our Society participated in the 3rd Atmospheric Sciences and Meteorology Symposium organized by the Atmospheric Sciences and Meteorology program, to present their research projects.



3rd Atmospheric Sciences & Meteorology Symposium



Stress Management Seminar

Another summer activity was a "Stress Management" workshop presented by Campus Psychologist Hernán Méndez. He discussed different techniques to manage stress at work and school, and how to perform effective teamwork, all in a very humorous style.



"Stress Management" conference



Making stress-out exercises

1st General Meeting Promotion

The founding members of the Student Chapter did a massive promotion during the period of August 9 thru 12 of 2006, addressed to all the UPRM student community in preparation for the first general meeting.



General Meeting Promotion Flyer



General Meeting Promotion Flyer



1st General Meeting

Our first general meeting of the UPRM Student Chapter of the AMS was held on August 24, 2006 at 10:45 am in the Planetarium at the Physics Department. A total of 63 people attended the meeting including students and professors. The purpose of this meeting was to present the directive of the local chapter for the school year 2006-2007 to the student community. Our invited speaker was Dr. Rafael Méndez-Tejeda, professor of the Department of Natural Sciences of the University of Puerto Rico at Carolina, and Vice-President of the Puerto Rico Professional Chapter of the AMS. Other guests were Dr. Héctor Jiménez, Director of the Department of Physics, and Dr. Mark Jury, professor of Meteorology. A short presentation of the UPRM Student Chapter was given by our President and Vice-President, Yaítza Luna-Cruz and Luis D. Padilla-Bauzá, respectively. They talked about the history of the AMS, about our student chapter and reasons for joining our chapter, among other things. At the end of the meeting, registration forms and brochures were handed out to prospective members interested on joining the chapter. Refreshments were served at the end of the meeting.



Registration Desk



2006

Presentation by Yaítza Luna and Luis D. Padilla



A total of 63 students attended the meeting



Hurricane Seminar at Sam's Club-Carolina, Puerto Rico

During the 2006 Hurricane Season, on August 26 we were invited by Sam's Club, a local department store, to give a talk about hurricane preparedness for the general public.





General public educational seminar at Sam's Club

1st Hot Dog Sale

As part of the fund raising activities for the Student Chapter, on September 21 we held the first hot dog sale on the Physics Department's Lobby.





The first Hot Dog!!

Sale Prices!!



1st Weather Today

Another general interest activity created by the Student Chapter was **"Weather Today".** This is a monthly activity with the objective of discussing current topics in atmospheric sciences and meteorology, by sponsoring lectures, seminars, workshops and field trips. The first one was the presentation of the documental "*Dimming the Sun*" celebrated on the Planetarium of the Physics building on September 28, 2006.



1st Weather Today at the Planetarium



Nachos after the Weather Today





"Dimming the Sun"



1st UPRM Student Chapter of the AMS Initiation

The first initiation of the Local Student Chapter was held on October 13, 2006, at the Business Administration building, with the participation of several members of the Puerto Rico Professional Chapter of the AMS, several university officials, professors, and relatives of the students. A total of 39 members, including the officials were initiated, and the first honorary member was named. The activity included a musical performance by a duet of students and refreshments.





First Honorary Member, Denisse Ramírez-Perdomo

First Initiation





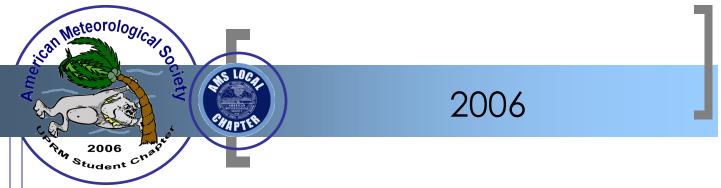
Musicians



During the Oath Ceremony



Listening the Ceremony



Halloween Party

One of the most enjoyed activities was the "Halloween Party" on the 24 of October of 2006.



Having fun!!!



Smile!!



Playing Dominó

Hot Dogs and Nacho Sale

The 2nd Hotdog Sale occurred on November 13, 2006. This time, nachos with cheese were included in the menu.



Working together



2nd Weather Today

For the second "**Weather Today**" Dr. Yasmín Detrés from the Marine Sciences Department, presented a seminar about the "Impact of Atmospheric Events on Tropical Marine Ecosystems". This activity was carried out on November 14, 2006 in the Planetarium of the Physics Department.



2nd Weather Today Presentation



Our guest speaker Yasmín Detrés, PhD

Thanksgiving Dinner

As a way of giving thanks for all the accomplishments obtained during the year, a Thanksgiving Supper, November 21, 2006, was celebrated. The interesting part is that this activity was celebrated in conjunction with the Society of Physics Students (SPS) and the Department of Physics. This activity, as a method of reflection, served to increase the fellowship between the student societies and educational personnel of the Department.





Thanksgiving Supper



2006

3rd Weather Today

The last 2006 "**Weather Today**" was a field trip to the NWS San Juan Forecast Office in Carolina, Puerto Rico on December 12. During the visit, personnel from the Office showed the operation of the equipment. The meteorologist Rachel Gross gave a seminar on "Work Opportunities and Operation of the NWS". In addition there was the opportunity to observe the launching of the radio sounding balloon at 7:00 p.m. local time.



During Rachel Goss seminar



AMS Student Chapter at the NWS

Christmas Dinner

Christmas Dinner completes the semester activities sharing supper at Sizzler restaurant. This was a time of sharing and exchanging ideas on the work and successes of the Society during the first semester 2006-2007.

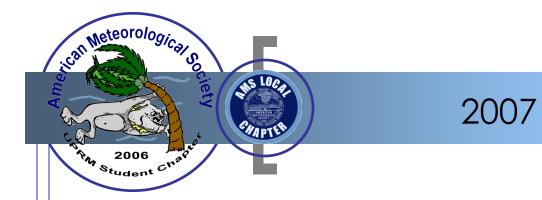


Merry Christmas!!



Summary of Past Happenings

January 2007 through April 2007



87th AMS Annual Meeting

During the week of January 13-19, 2007 a delegation of nine students of our Chapter (Officers 2006-2007) traveled to San Antonio, Texas, to participate of the 87th AMS Annual Meeting. For the first time in our short history we participated in the Local Student Chapter Poster Competition obtaining a Second Place in this important event. This recognition was very important to us. The week was very educational for us because the delegation participated of almost all the activities. Our main objective was to gather new ideas for future activities, whether for use in the University and with the general public, to learn about opportunities for graduate studies and possible financial aid, and about future careers. We were thrilled to participate as the first student chapter in the Caribbean. Definitively, we fulfilled all our objectives.



2007



UPRM Student Chapter Poster



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During the poster set-up



At one of the Conference



Receiving the 2nd Price



At The Alamo...was so cold!!



Hot Dog Sale

On January 29, 2007 we made our first sale of the semester at the Physics Lobby. These are the only fund raising activities of our Chapter.

Goofy Games Colegiales

On February 3rd participated of the UPRM College Goofy Games. More than 400 students from different student associations, departments and Campus groups participated in a day of games. Eight members of our society represented us. The games included athletic, dancing, memory, knowledge, strength and concentration activities, all in humorous situations.



Answer well or get a cake in you face

Walk Together



Lunch Meeting with Dr. David Enfield from the AOML

We had a Lunch Meeting with Dr. David Enfield from the Atlantic Oceanographic and Meteorology Laboratory (NOAA/AOML) in the Eugene Francis Conference Room. He talked about study opportunities in Miami, the different research areas and job opportunities at AOML and the Hurricane Research Division in Miami. He also talked about his experience working with NOAA. We had the chance to make questions and to exchange ideas. After the talk we had a delicious lunch.



Dr. David Enfield from the AOML

Dr. David Enfield Seminar

On February 8, 2007 Dr. David Enfield presented a Seminar entitled "What do we know about AMO and its impact on Western Hemisphere Rainfall and Hurricanes". This seminar was directed to all the college community.

Hot Dogs Sale

Another fund raising activity by our Chapter was on February 12, 2007.



Global Warming and its Effects in Puerto Rico- Univisión Puerto Rico (February 13, 2007)

We were specially invited to this conference sponsored by Univisión Puerto Rico, which is one of the main local TV channels. The broadcast meteorologist, Ada Monzón, and other scientists and government speakers, discussed the possible impact and effects of Global Warming over the Island. The principal speaker was Dr. Bob Henson from the University Center for Atmospheric Research.



Global Warming Conference at the Puerto Rico Convention Center in San Juan

Saint Valentine

As celebration of Saint Valentine Day on February 15, 2007 we carried a group activity with the objective of improving the member's collegiality and to reflect on the importance of working as a team.



Group Dynamic



Lunch Meeting with Steven Cooper and Melinda Hinojosa- NWS Southern Region (February 21, 2007)

We were so privileged to receive the visit of Steven Cooper- NWS Southern Region Director and Melinda Hinojosa Southern Region Public and Marine Services Meteorologist. They talked about the different opportunities and programs that the National Weather Service can offer.



The entire group at the end of the Lunch Meeting



Israel Matos- Meteorologist in charge of the NWS-San Juan, Steven Cooper-NWS Southern Region Director and Melissa Hinojosa- NWS SR Pubic and Marine Services

Advanced WES Training

On February 23, 2007 the AMS Mayagüez Student Chapter was the sponsor of an **Advanced Weather Event Simulator (WES) Training** by the National Weather Service staff, Andrew Levine and Ed Tirado. The training was an overview of WES and its applications. The activity was held on the Meteorology Lab of the Department of Physics.



One of our members, working at the Meteorology Lab



Weather Today

One of our principal objectives of participating in the AMS Annual Meeting was to gather new ideas. We reported to the members of our Society during a "Weather Today" on March 1, 2007 our experiences in the AMS Annual Meeting. We talked about the different conferences, opportunities for graduate studies, possible financial aid and future careers among other themes. We presented videos and photos to illustrate our participation in this unforgettable experience. We also formally presented our Second Price in the Poster Competition.



Weather Today: 87th AMS Annual Meeting

Hot Dogs Sale

The last sale for this semester was on the 12 of March, 2007.

NOAA Visit

During the week of March 19-23, 2007 we received a special visit of NOAA officers. On Tuesday, March 20, 2007 at 2:30 pm we received a seminar about NOAA careers and studies programs. These included *Charly Wells*, Director Office of Equal Opportunity and Diversity Management, *AI Corea*, Director - NOAA Civil Rights Office, *Hope Hasberry*, Equal Employment Opportunity and Diversity Management (EEODM) Program Specialist, *Salim Abddeen*, Hispanic-American



2007

Employment Program Manager, Israel Matos, Meteorologist in Charge, NWS-SJFO.



Charly Wells



NOAA visit with UPRM Directors



Hope Hasberry



Weather Fest

The UPRM Student Chapter celebrated on March 23, 2007 the World Meteorology Day. Students from the entire Island came to the Rafael A. Mangual Coliseum to participate of the first Weather Fest in Puerto Rico. This Festival was an interactive activity in which the students had the opportunity to learn about different aspects of the atmospheric sciences through exhibitions, demonstrations, visuals, games and direct talks with local meteorologists. The activity started at 8:00 am and finished around 12:00 pm. More than 325 students participated, in addition to teachers, students from our Campus and the general public. Some 40 students from our Society manned a staff of collaborators, and some 20 exhibitors, to execute the activity. We also had the participation of different federal and national agencies like Natural Resources, American Red Cross, and the NWS.



2007

We counted with the participation of diverse research groups and local laboratories like Sea Grant, NOAA Center for Atmospheric Sciences (NCAS) and the Tsunami Ready Program. During the formal opening ceremony the Chancellor of the University of Puerto Rico at Mayagüez, Dr. Jorge Iván Vélez-Arocho, read the Proclamation of the World Meteorological Day at this *Weather Fest*. The NOAA staff members Charly Wells, Hope Hasberry, Al Corea and Salim Abddeen, also were present for the ceremony. Several local TV channels reported specially the activity.



Weather Fest logo



Weather Fest Entrance



Opening Ceremony



Top View



Weather TV Demonstration



Weather Presentation inside the Star Lab



Games and Trivias







Tornadoes Demonstration



Coriolis and Clouds Demonstration



Sea Grant Exhibition

Weather Simulations



Lightning Demonstration



Van Der Graaf Demonstration



Remote Sensing Exhibition



How to boil water with ice Demonstration

Weather Today

The last Weather Today for this semester was the presentation of the movie "Stormchasers" at the Planetarium of the Physics building. We received students from all the university community.





2007

Community Service – Beach Clean-up

On April 16, 2007 a group of students from the AMS, relatives and employees of governmental agencies took the initiative to contribute to the well-being of our environment by cleaning the Bahía Ballena Beach, which is located in the south of the Island. The Scuba Dogs of Puerto Rico, an environmental organization, were the principal sponsors of this activity providing us with the necessary tools. Guanica's Municipal Government helped us with the final collection of the garbage bags, and officers from the Department of Natural Resources and from the Conservation Trust of Puerto Rico helped in the organization of the activity. This was a shocking and learning experience on what we can do to upkeep the environment.





Because the well-being of our environment in also one of our objective...



First Anniversary Celebration

We celebrated our first Anniversary. On April 16 of last year we received the letter from the national AMS, with the formal inscription of our Chapter, and this year we celebrated the milestone with a birthday cake.



Birthday get together



Birthday Cake-1st Anniversary

International Congress: Gaia and Climatic Change

An AMS delegation participated of the International Gaia and Climate Change Conference celebrated in the UPR- Rio Piedras on April 20, 2007. Exponents of diverse and related research areas talked about Global Climate Change.





Community Service - Sam's Club (April 25, 2007)

As part of the celebration of the Earth Month, Sam's Club invited us to participate with a Global Warming and Meteorology exhibition. The community of Mayagüez had the opportunity to learn more about those topics. It was a very important outreach and educational activity, because our people need it and we are here to help them.

Communications Workshops

The Atmospheric Sciences and Meteorology Project of the Department of Physics offered us with a series of workshops related to the world of communications. The first workshop was on February 12, 2007 with a theme of "Introduction to communication media" by professor Margarita Santori from the Campus Press Office. The second one was on "Introduction to Writing" by Dr. Mariam Ludin-Rosa on March 1. And the third workshop was on April 12 entitled "Basic radio speaker techniques" given also by Mariam Ludin-Rosa, PhD, and radio speaker José García. The main purpose was to provide an introduction to what broadcast meteorology might involve.



Professor Margarita Santori



2nd Communication Workshop



1st Communication Workshop



3rd Communication Workshop



School Visits during the 2006-2007

During the 2006-2007 academic year we had the opportunity to visit different Schools promoting the interest in Atmospheric Sciences between our children and young people. Presentations about Hurricanes and Climate Change were discussed in this school visits.





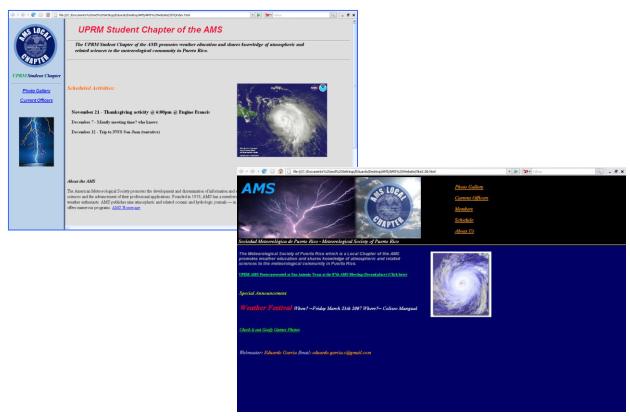




2007

Chapter's Web Page

The idea for a webpage for our chapter arouse since the first meeting we had. This idea turned into a reality once we had done the proper paper work and were assigned a web address. Eduardo Garcia was named webmaster and worked with the help of most of the members to build the webpage. The main goal was to have a place in the web where people interested in our cause could find out more about and also as an instrument of communication with for our chapter. The page includes information about our chapter, origin, current officials, important dates and a photo gallery where we have pictures of all our activities. There are a lot of ideas for the page in the future likes an interactive blog or a forum where members and the public alike can express their interest and opinions on Atmospheric Science related topics. Below there are pictures evolution showing the of our page. Please visit US at http://academic.uprm.edu/ams



Concluding Remarks

This has been an amazing year! Just 12 months ago the Chapter consisted of less than 10 people; now we are over 39 members. Friendships have sprung ... We have gone to conferences where we met great people and had lots of fun... We worked together hard as a real team... We sold hundreds of hot dogs... We helped our community... We helped our Planet... Years from now, no matter where we are or what we might be doing, we will surely remember fondly this year when we were members of the Meteorological Society of Puerto Rico, Student Chapter at the UPRM: the meetings, the Weather Fest, the Weather Today, the professors, the courses, the University... But we must, above all, remember the people... We are all members because we love Atmospheric Sciences and Meteorology and we want to make contributions to it, and make it more accessible to the general public. But we are also members because we wanted to meet people who share our love for Science, and we found them. We will surely miss everyone once we have moved to the next stage of our lives...

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