



8:00 AM

REGISTRATION AND BREAKFAST

8:30 AM

WELCOME:

HÉCTOR JIMÉNEZ, PHD - HEAD OF THE

DEPARTMENT OF PHYSICS

MOISÉS ORENGO, PHD - DEAN, FACULTY OF ARTS

AND SCIENCES

JORGE IVÁN VÉLEZ, PHD - CHANCELLOR UPRM ISRAEL MATOS, MIC - DIRECTOR, NATIONAL

WEATHER SERVICE - SAN JUAN OFFICE

9:00 AM

STUDENT'S PRESENTATIONS

1. Discriminate between severe weather (tornado and nontornado) environments to improve severe weather forecasting in the Mid-South

Student: Néstor S. Flecha (Physics)

Mentors: Jonathan L. Howell, Scott J. McNeil, Kati R. McNeil, Chris C. Duke from Weather Forecast Office (WFO) - Memphis, TN

2. Vulnerability of the Hispanic Community to Severe Weather: some counties of Arkansas

Student: Luis D. Padilla (Physics)

Mentor: Nelson de Villier from WFO-Little Rock, AR

3. Implementation and validation of the Advanced Research - Weather and Research Forecasting (ARW) system for enhanced wind forecasting in Puerto Rico

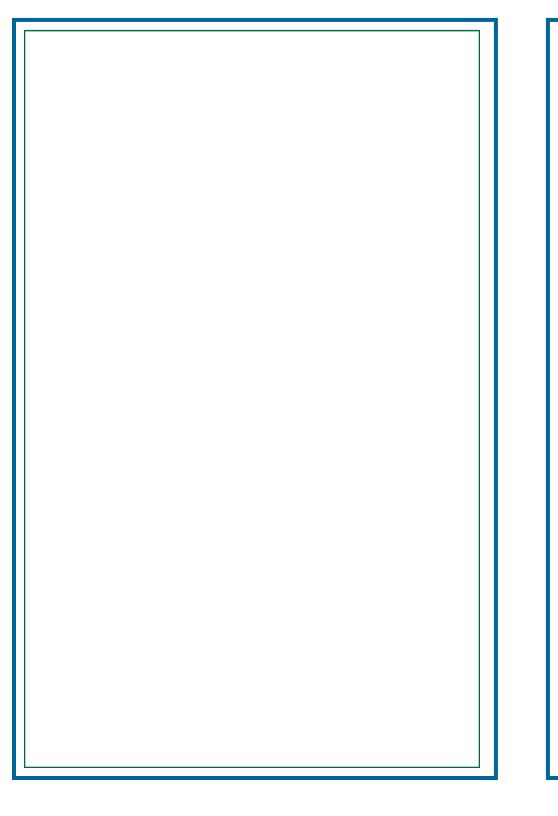
Student: Juan O. González (Mathematics)

Mentor: Julio Morell (UPRM-Marine Sciences)

4. AVHRR data collection and processing in TeraScan station

Student: Adriana Meléndez (Electrical Eng.)

Mentor: Pieter Van der Meer (Mechanical Eng.)



5. Synoptic Patterns from 1950 to 2003 that favor snowfall events in New Mexico with special focus on Bernalillo County

Student: Carlos M. Anselmi (Physics)

Mentor: Brent Wachter (WFO -Albuquerque, NM)

6. Flood Climatology Meeting

Student: Odalys Martínez (Physics)

Mentors: Ana Maria Hagan, Jeffrey Dobur, Brad Gimmestaed, John Feldt, Marc Love (WFO-Peachtree, GA)

7. The Impact of the Saharan Air Layer on Atlantic Tropical Cyclone Activity

Student: Cristimer González (Physics)

Mentor: Jason P. Dunion (NOAA-Atlantic Oceanographic and Meteorological Laboratory, Miami)

8. El Nino Southern Oscillations and the Atlantic Warm Pool as Predictors for Atlantic Hurricane Activity

Student: Noraica Dávila (Electrical Eng.)

Mentor: David B. Enfield (NOAA Atlantic Oceanographic and Meteorological Laboratory, Miami)

9. Rainfall Response Study for Fisheating Creek Basin at Palmdale

Student: Julieta Gómez (Civil Eng.)

Mentor: Rusty Pfost and Pablo Santos (WFO-Miami)

10. Comparison of TRMM NASA satellite-based rainfall estimates with radar and land-based gauges in Puerto Rico (1998—2001)

Student: **Lizeidy Nieves (Civil Eng.)**Mentor: Miguel Pando (UPRM - Civil Eng.)

11. Comparison of TRMM NASA satellite-based rainfall estimates with radar and land-based gauges in Puerto Rico (2002–2005)

Student: Thais Alicea(Geology)

Mentor: Miguel Pando (UPRM - Civil Eng.)

12. Climatology of hurricanes in Corpus Christi

Student: Emmanuel Martínez (Physics)

Mentor: Scott Cordero (WFO - Corpus Christi, TX)

12:00 - 1:00

LUNCH

13. A Classic Severe Weather Setup: the 21 April 2007 Texas Panhandle Tornado Outbreak

Student: José G. Conde (Mathematics)

Mentor: Matthew Kramar (WFO - Amarillo, TX)

14. Zone Forecast Verification for PRZ010

Student: David Sánchez (Mathematics)

Mentor: Israel Matos (NWS-San Juan)

15. Zone Forecast Verification for PRZ008

Student: Eduardo García (Electrical Eng.)

Mentor: Israel Matos (NWS-San Juan)

16. A Gulf of Mexico Tropical Cyclone Climate Study Using ENSO and QBO as Determinants

Student: David Navarro (Physics)

Mentor: Robert J. Ricks Jr. (WFO - Slidell, LA)

17. Relative humidity and temperature as a way to validate heat index critical events and its impacts on the community's health

Student: Janice Maldonado (Physics)

Mentors: Paul Trotter and Dana Griffin (WFO - Slidell, LA)

18. Convection Parameters during Heat Wave Events and Impact of OHSAS on the Media

Student: Myrna Santiago (Biology)

Mentors: Paul Trotter and Dana Griffin(WFO - Slidell, LA)

19. Systematic Study of Rain Water: The Quality of Rain water in Mayaguez City

Student: Cynthia Caraballo (Chemical Eng.)

Mentor: Maritza De Jesús (UPRM-Chemistry)

20. Summer distribution of total suspended particles: Air Quality in Mayagüez city

Student: Jamaries Benítez (Electrical Eng.)

Mentor: Maritza De Jesús (UPRM-Chemistry)

21. Attenuation of ultraviolet and visible radiation by aerosols in Saharan dust events reaching sothwestern Puerto Rico

Student: Ashley F. Cruz (Industrial Eng.)

Mentor: Yasmín Detrés (UPRM-Marine Sciences)

22. Image and data analysis of aerosol products during Saharan dust events

Student: Michelle Vega (Chemical Eng.)

Mentor: Yasmín Detrés (UPRM-Marine Sciences)

23. Calculating ET, water and CO2 fluxes from Eddy Covariance System

Student: José G. Pérez (Mathematics)

Mentor: Luis R. Pérez (UPRM-Agricultural and Biosystems Eng.

24. Hurricanes in Shreveport, LA History (1940-2006)

Student: Jennifer M. Colón (Physics)

Mentor: Nicholas Fillo and Jim Derry (WFO-Shreveport LA)

25. The June 2007 Texas Flooding Event seen from an Impact Weather Perspective

Student: Héctor Pérez (Physics)

Mentor: Bernard N. Meisner (WFO-Fort Worth, Texas)

26. Environmental conditions that led to the June 4th, 2007 hail and wind storm

Student: Billy A. Rivera (Physics)

Mentor: Navejar Felix (WFO-Lake Charles, LA)

27. El Niño and La Niña Phenomenon Study for the Huntsville, AL Area (2007)

Student: Ismari Ramos (Physics)

Mentor: Kristopher White (WFO-Huntsville, AL)