

# THIN-AIR BULLETIN

NEW MEXICO CHAPTER      REGION IX      ALBUQUERQUE, NEW MEXICO

## ASHRAE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS

September 2003

### New Mexico Wind Energy

This month's program will feature Eddie Padilla who heads PNM's Bulk Power Marketing group discussing the new wind farm that PNM will be bringing on line this year. The meeting will be **Wednesday September 17<sup>th</sup>** and will be a combined meeting with NMFMN and AEE.

Here are some facts about the wind farm. FPL Energy is constructing and will own and operate the 204-megawatt (MW) facility, located 20 miles northeast of Fort Sumner. PNM will buy all of the power from the facility under a long-term contract. The facility, to be called the New Mexico Wind Energy Center, is expected to begin commercial operation this calendar year. It will produce enough electricity to supply 94,000 average-sized New Mexico homes.

#### New Mexico Wind Energy Center Quick Facts:

1. Number of towers and turbines to be installed: 136
2. Height of towers: 210 feet
3. Length of turbine blades: more than 110 feet
4. Exact location of facility: 20 miles northeast of Fort Sumner, Straddling Quay and DeBaca counties
5. Highways from which the facility will be visible: N.M. 252 and U.S. 84
6. Distance of facility from Albuquerque: about 170 miles
7. Maximum output per turbine: 1.5 megawatts

*(Continued on page 2)*

### PRESIDENT'S MESSAGE

I hope everyone had a great summer season and is ready for an exciting new year in ASHRAE.

Our Board & Chairpersons just returned from Omaha, Nebraska where we attended the Chapter Regional Conference(CRC). We learned many new things about operating our local Chapter and had a little fun (golf) at the same time.

Our Chapter Programs Chairman/President-Elect has some great programs lined up for the coming year including a seminar in October.

We are looking into some ways to improve our Chapter, increase attendance at the monthly meetings, and improve the service that ASHRAE can provide to you. In doing so we would like your assistance. If you have any comments, concerns, or suggestions for programs, technical sessions, meeting times, or would like to volunteer to present at a meeting, please send me an email at [mdunavant@qwest.net](mailto:mdunavant@qwest.net).

Our chapter will be hosting the CRC in Albuquerque next year. We are looking for volunteers to help put on this function. If you are interested in helping, please contact Bruce Davis at [davis-eng@swcp.com](mailto:davis-eng@swcp.com) or Ed Reyes at [ereyes@pnm.com](mailto:ereyes@pnm.com).

The ASHRAE Mission Statement spells out our focus:

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigera-

*(Continued on page 2)*

8. Peak output for entire facility (gross): 204 megawatts
9. Peak output for entire facility (net): 200 megawatts
10. Number of existing wind facilities in United States that are larger (in terms of output): 2
11. Ideal wind speed for energy production: 8-55 mph
12. Minimum wind needed for energy production: about 8 mph
13. Energy expected to be produced per year: 594,206 megawatt hours
14. Emissions produced by turbines: none
15. Water required for operation of turbines: none
16. Solid waste produced by turbines: none
17. Amount of wind capacity currently operational in New Mexico: 1.32 megawatts
18. Amount of wind capacity operational once facility comes online: 205.32 megawatts
19. New Mexico's rank among states in wind energy potential: 12th
20. Jobs created during six- to nine-month construction: 120-150
21. Permanent jobs required to run the facility: 12
22. Number of acres needed for entire facility: 9,600
23. Number of acres that will be encumbered (unavailable for other uses): 27
24. Ownership of land to be used: mostly private land, with some state-owned land
25. Economic benefit for area: more than \$40 million over 25 years

The program will be held at the Petroleum Club on **Wednesday September 17<sup>th</sup>**. The cocktail hour starts at 5:30 pm and the dinner and program will follow at 6:30 pm. The menu choices are Teriyaki Pepper steak or Apricot Chicken. Please reply by Friday September 12<sup>th</sup> by e-mail (davidg@cmenm.com) or call David Graham at 884-8868 and please identify your menu choice.

Technical Session: No Session for this meeting

## ***PRESIDENT'S MESSAGE - Continued***

tion and related human factors to serve the evolving needs of the public and ASHRAE members.

Please visit the ASHRAE website at [www.ashrae.org](http://www.ashrae.org). It is a great website with a lot of information.

I look forward to a productive year and am excited about serving as your president for the 2003-2004 year.

See you at the meetings.

Mike Dunavant  
NM ASHRAE Chapter President.



## **From the History Books**

December 1999

Chapter Officers were:

President:	Ed Faygal
President-Elect:	Nick Nellos
Secretary:	Tom Watters
Treasurer:	Jim Asperger

This month there was a tour of the Albuquerque Aquarium. Joe Martinelli and his assistants provided a behind the scenes technical tour of the aquarium. The tour focused on the technical aspects of maintaining the life support system for the tenants.

**ASHRAE GOLF TOURNAMENT**

Our annual golf tournament at Paradise Hills was a big success. Three teams tied for first place with a score of 64, forcing a scorecard playoff. After the pencil shavings settled, the results were as follows:

1<sup>st</sup> Place: Ray Wright Jr.  
 Brian Howe  
 Ray Wright Sr.  
 Rich Brundage

2<sup>nd</sup> Place: Mike Dunavant  
 Lawson Shanklin  
 Loren Miller  
 Rick Weber

3<sup>rd</sup> Place: Jim Feeney  
 Gary Treat  
 Thornton Young  
 Tom McLarty

Our other prize winners were:

Closest to the pin: Jason Foundas  
 Ray Wright

Longest drive: Ron Mims  
 John Eagan

I want to again extend a special thanks to our Hole Sponsors and Beverage Cart Sponsors. Without their support, this tournament would not be the huge success that it was. See you next year at Paako Ridge!

Hole Sponsors:

- Patterson-Kelley
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- National Heating
- Hanna Plumbing
- Mechanical Representatives
- Boyd Engineering
- James, Cooke, & Hobson
- Energy Controls
- Ruskin
- Krueger
- Loren Cook Company
- Henderson Construction

- Automated Controls
- The Response Group
- Southwest Trane
- Norman S. Wright
- Yearout Mechanical
- Crest
- CAC
- Spec-Air
- Sigler & Reeves
- Integrated Controls
- The Johnston Company
- Harmeyer Nellos Engineering
- Price Industries
- Greenheck
- Flexmaster USA
- MBI
- Socha Company
- Omron IDM Controls
- McQueeny Lock
- P2RS

Beverage Sponsors:

- Camfil Farr
- WM Carroll
- Hays Fluid Controls



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- **Continuing Education Seminar Day** •
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- This October 30<sup>th</sup> New Mexico ASHRAE •
- will be offering a series of seminars. There •
- will be the opportunity to gain up to 7 CEU's •
- between the morning and afternoon sessions. •
- Further details will be issued in a supplemen- •
- tal mailing later this month. The ASHRAE •
- board is still looking for \$100 refreshment •
- sponsors for the seminars. Please contact •
- David Graham by e-mail (davidg@cmenm. •
- • • • •

- SEPTEMBER MEETING -

SPEAKER: **Eddie Padilla**  
**PNM Bulk Power Marketing**

TOPIC: **New Mexico Wind Energy**

DATE: **Wednesday, Sept. 17th, 2003**

**Santa Fe Location:** No Meeting

**Albuquerque Location:** Petroleum Club  
500 Marquette NW

TIME: 5:30 Social Hour

TECHNICAL SESSION: No tech session this month

6:30 Dinner and Main Program

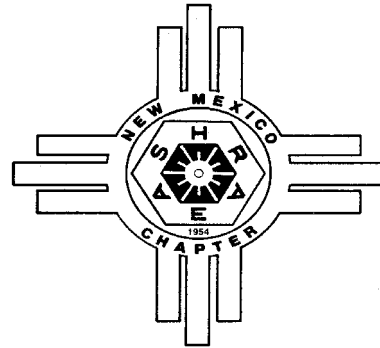
MENU: Teriyaki Pepper Steak or Apricot Chicken

Please indicate your choice with your reservation.

COST: \$20.00 with advanced registration  
\$25.00 at the door

All cost are inclusive of tax and tip

RSVP: Friday, September 12th, to David  
Graham at 505-884-8868 or  
**davidg@cmenm.com**



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