

# Jarchow discusses climate change

By Randy Dockendorf  
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At the International Forum on Monday, Sept. 24, University of South Dakota panelists found global warming to be a very hot topic.

“Global Warming: The Evidence Is In!” covered the scientific data pointing to global warming. But the panelists also acknowledged the political, social, economic and religious issues.

Climate change will directly affect agriculture and the way an exploding world population is fed, according to Dr. Meghann Jarchow, assistant professor of Sustainability in the Department of Biology.

The future points to intense, less frequent precipitation; and wetter winters and springs, along with drier summers, Jarchow said.

“We are seeing more events like 3 inches (of precipitation) followed by long periods of no rain, compared to spread-out rainfalls. That requires much adjustment,” she said.

During the past four

decades, temperatures have cooled during the day and have risen at night, Jarchow said. The Midwest has seen dramatic swings in climate patterns in recent years, she added.

Looking to the future, southeast South Dakota is projected to see its winter temperatures rise around 7 degrees by the end of the century, while summer readings are projected to rise about 5 degrees.

Jarchow showed a crop map of Clay County consisting almost exclusively of corn and soybeans. In the future, farmers will need to produce a wider, more diverse range of crops, she said.

“We need more resilient, multi-functional ag systems,” she said.

The current farm system and government policies focus on highly productive, specialized crops, Jarchow said. “It requires intensive, carefully-timed management,” she said.

## Spotlight On

### UNIVERSITY OF SOUTH DAKOTA

Climate change will require a different way of thinking, even looking at raising a wider variety of crops year-round to adjust for seasonal weather shifts, Jarchow said.

“You need to handle the trends over time, including the unpredictability,” she said.

She recommended a wider range of crops to reduce risks; government policies supporting diversification while continuing to provide risk protection such as crop insurance; and focusing on perennial crops.

Future practices and policies also need to take into account carbon sequestration, along with

water regulation and purification, she said.

“We are going the other direction very quickly,” she said.

“Agronomists and farmers could respond if they were rewarded (with the right incentives).”

Jarchow believes changing the conversation may create an atmosphere for finding solutions.

“If we talk about the effects as they are now, and the things we see, it’s not as political,” she said. “It’s something we need



Dr. Meghann Jarchow, assistant professor of sustainability, speaks about the challenges facing agriculture because of climate change during Monday’s international forum at the University of South Dakota in Vermillion.

(Kelly Hertz/Yankton Press & Dakotan)

to do now, and it won’t be as polarizing.”

Jarchow earned her BA in Biology from Ripon College in 2002, followed by here MS in Biology from the University of Minnesota, Mankato, in

2005.

Earlier this year she earned her Ph.D. in Sustainable Agriculture and Ecology and Evolutionary Biology from Iowa State University.

#### 1101 Announcements - Events

**Faith United Lutheran Church, ELCA, 44874 303rd St/Po Box 168, Volin, SD 57072, (605)267-2277. S u n d a y** Worship: 9:30am with Holy Communion the 1st & 4th Sundays. WOW Wednesday program beginning at 6:30pm for all children 3 yrs old - 7th grade, and confirmation classes for those in grades 8th & 9th.

**Fall Craft/Vendor Blender, Saturday, October 20, 2012.** Menno City School Auditorium. Booth spaces still available. Contact Teresa at (605)387-5379 or (605)760-0031 or plmnutz@hotmail.com

#### 1101 Announcements - Events

**FIRST BAPTIST Church Elmer “Sandy” Aakre, Pastor 624-6391 home, 624-4658 church. Time: 9:15 Sunday School, 10:30 Worship. Sunday Choir Practice, 11:50 a.m.**

**GOSPEL CHAPEL Church, 708 Jessie St./Highway 12, Newcastle, NE. Sunday School, 9:30 a.m.; Sunday worship 10:30 a.m.; AWANA Wednesday at 7 p.m., 402-355-2305. Pastor Chuck Myers, 402-355-1335.**

**GRACE BAPTIST Church, SBC, Pastor Steve Ford, 1102 E. Main. Phone 624-4949. Adult’s and Children’s Sunday School 9:30 a.m. Sunday Worship 10:45 a.m. Prayer Meeting Wednesday Night 7 p.m.**

#### 1101 Announcements - Events

**Grief Support Group: Every Wednesday from - September 19th to October 24th, 5:30-7:00pm. Cost is free. Sanford Vermillion, Hospice office - 19 S Plum, across the street from the hospital. Pre-registration is requested. Pleaes call Julie Harding at (605)638-8484.**

**HILLSIDE COMMUNITY CHURCH (C&MA) 1800 Constance Dr. West on Cherry just before you go down the hill. Worship Sept.-May 10:30a.m., May-August 10a.m., AWANA Sunday School small groups. 6 0 5 - 6 2 4 - 4 8 6 2 , www.hillside-cc.com**

#### 1101 Announcements - Events

**Horse Sale: Belle Plaine Western Exchange, Belle Plaine, IA. Next Scheduled Sale and Open Ranch Horse Show: Saturday, October 13, 2012. Tack 10:00 a.m., Horses immediately following. Sale 2nd Saturday of every month. Upcoming Sale: November 10. Check out our website for details and special sale announcements: www.westernexchange.com; Info/To Consign: 319-444-2320; email: bpwe@netins.net (MCN)**

#### 1101 Announcements - Events

**IMMANUAL Lutheran Church, Elk Point, SD: Worship Service 9:00 a.m., Sunday School 10:00 a.m.**

**Is food a problem for you? Does weight affect the way you live?** Overeaters Anonymous meeting in Vermillion, Saturdays at 9:00am. Sanford Vermillion Hospital, 20 South Plum. (Administration door south of hospital entrance in board room.)

#### 1101 Announcements - Events

**Join us on Saturday evenings at 6:30pm at the Jefferson Community Center for Free Family Movies. New movies on a big screen, awesome sound, and Free popcorn! Like us on Facebook and check out our upcoming movies. www.facebook.com/FreedomChurchSD. Sponsored by Freedom Church - Jefferson, SD**

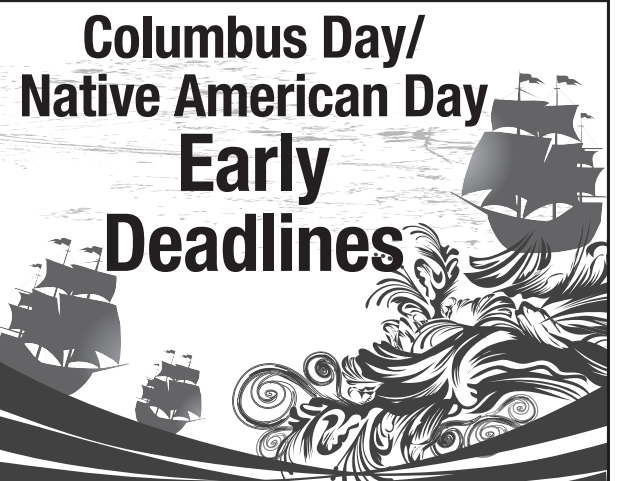
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## M&S Trenching

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## bp Broadcaster Press

The deadlines for the October 9, 2012 issue are:

Display Advertising:  
Thursday, October 4th  
at 11AM

Classified Advertising:  
Thursday, October 4th  
at 11AM

## Dave Daale Realty

### IRENE ACREAGE • 44949 295<sup>th</sup>

Beautiful 30 acre setting with 5 bedroom home, with newer windows, siding & roof. Large machine and livestock working buildings, all with tin roofs, most with tin siding, fencing & automatic fountains ready for livestock.

### HUDSON • 208 5<sup>th</sup> St.

Ranch home built new in 2008. 2bdm., 1 bath, 24x24 attached garage, super high efficient home. Basement insulated plus egress. PRICE REDUCED

### ALCESTER ACREAGE • 30294 SD Hwy 11

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### VERMILLION RIVER BLUFFS BUILDING SITES

14 acre and 17 acre sites located south of Centerville. CALL



More photos and info at:  
www.davedaale.com  
Call Dave or Roni at  
(605) 987-5082

## AUCTION

Sunday, October 14, 2012 - 1:00pm

### JACKSON AMPRIDE

Hwy. 20 Jackson, NE

We will be moving into our new building, therefore we will sell the following.

#### Auctioneer’s Note: STORE EQUIPMENT

Building & Equipment are less than 20 years old BE ON TIME! SALE WILL LAST APPROXIMATELY 1 1/2 HOURS. Building will be the first item sold.

#### BUILDING

31x67, 15” High, Wood Frame.

To be moved in 3 days.

Contact Dale Morrow at 402-632-4555

because he can lift and move and leave on site for 10 days

4-Post Canopy, 48x38, 15’ High

NOTICE - ALL Items Must Be Removed Within 3 Days!!

#### JACKSON AMPRIDE

Owners: Taylor Nelson • 712-203-1922

Doug Nelson • 712-203-0281

Auctioneers & Clerks

Kenny Burcham • 402-638-2561 Larry Lowe • 402-755-2393

- Freezer, 3-Door, 8x10 reach in/walk in, w/ compressor
- Cooler, 6-doors, 8x16, reach in/walk in, w/ compressor
- Pastry Cabinet
- Shelving, 4x12 and 4x8
- Cabinet Top, 18’, w/ storage shelves
- Office Desk
- Small Utility Sink
- Toilet & Vanity
- Hatco, reach in warmer
- Large breaker box
- Commercial Heating & Cooling Unit
- (2) Gilbarco Gas Pumps 2 Product, 4 Hose,
- Gilbarco Tank Monitor 2.1
- Digital lighted gas sign, 5x10, On 20’ Post
- Coin Operated Air Compressor
- Electric Water Heater