



Weather Camp 2011

School of Natural Resources
University of Nebraska–Lincoln

Weather Camp 2011



Ice breaker activities

Weather Camp 2011



Ice breaker activities

Weather Camp 2011



Ice breaker activities

Weather Camp 2011

	June	Jan + Feb 2010	Lydia + Cecilia 2009	Jessica + Erin 2008	Dillon + Kevin 2007	Amber + Bree 2006
Blue	cool + rainy	X	X			
Brown	hot + tornadoes					
Green	cool + windy			X	X	
Orange	hot + humid					
Red	thunderstorms					X
Yellow	dry + sunny					



Natalie leading the weather vs climate activity

Weather Camp 2011



Weather and climate activity

Weather Camp 2011



Playing with the Kestrels (weather instruments)

Weather Camp 2011



Playing with the Kestrels (weather instruments)

Weather Camp 2011



Playing with the Kestrels (weather instruments)

Weather Camp 2011



Playing with the Kestrels (weather instruments)

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Checking the pressure on the 9th floor

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Lunch time

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ANDRILL



Antarctic geological DRILLING (ANDRILL) is an international, multi-disciplinary drilling program that targets geological resources that lie hidden beneath the ice sheets of Antarctica.

A visit from ANDRILL

Weather Camp 2011



A visit from ANDRILL

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On the move

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Learning about a weather station on campus

Weather Camp 2011



Learning about a weather station on campus

Weather Camp 2011



Learning about a weather station on campus

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Learning about a weather station on campus

Weather Camp 2011



The group at the weather station

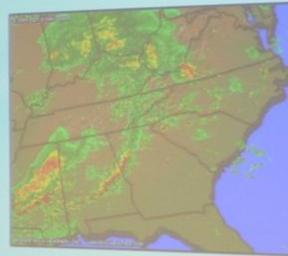
Weather Camp 2011



Watching the radar at the Dairy Store

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Radar and Satellite Imagery



Restroom
Water Fountain
Go outdoors

Learning about radar and satellite imagery

Weather Camp 2011



Learning about radar and satellite imagery

Weather Camp 2011



Braedi leading a weather discussion

Weather Camp 2011



Braedi leading a weather discussion

Weather Camp 2011



Learning more weather information

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Playing with a weather station

Weather Camp 2011



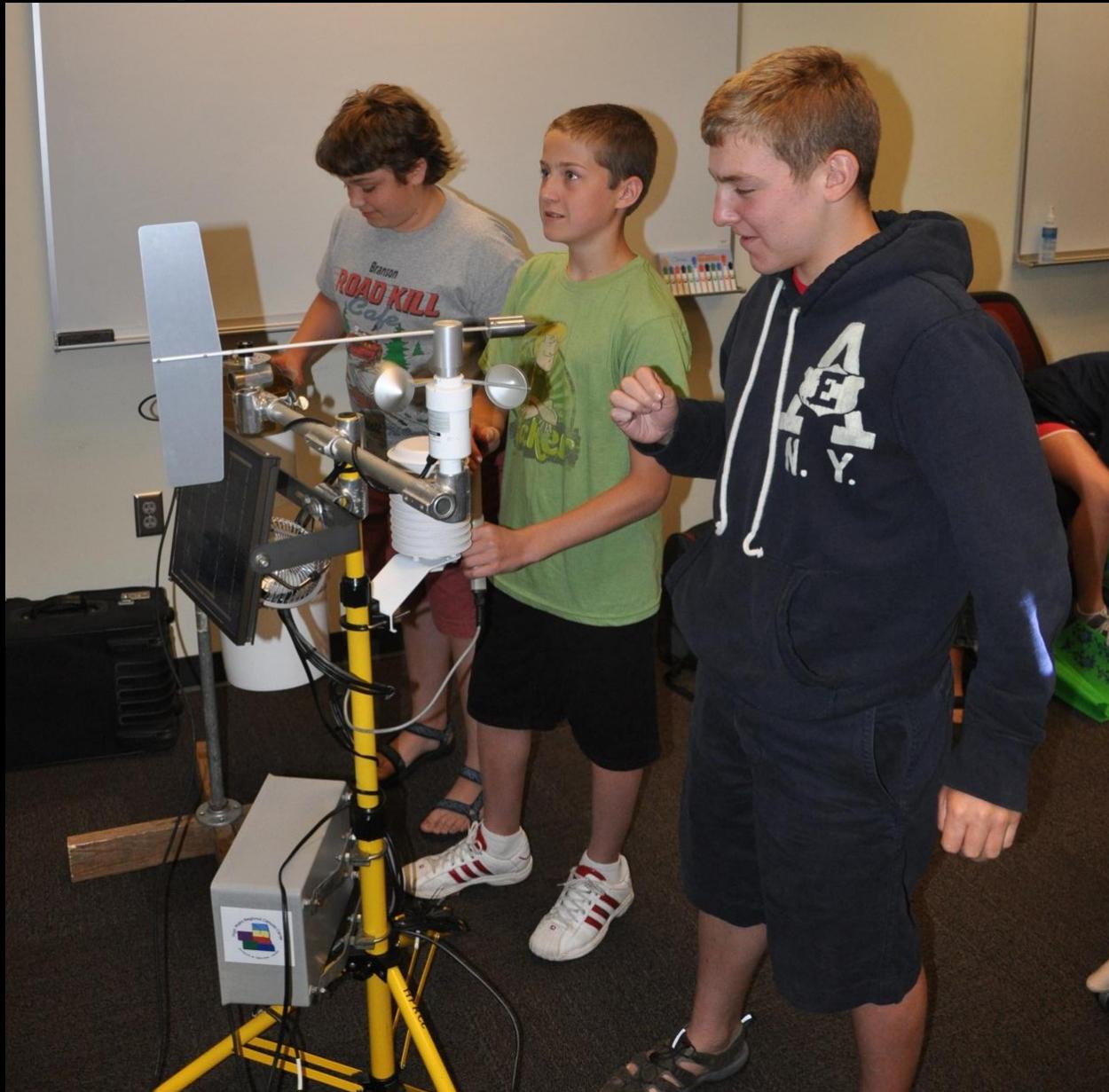
Playing with a weather station

Weather Camp 2011



Playing with a weather station

Weather Camp 2011



Playing with a weather station

Weather Camp 2011



Emma and Holly having a chat

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Making a tornado

Weather Camp 2011



Making a tornado

Weather Camp 2011



Campers in the storm

Weather Camp 2011



Campers in the storm

Weather Camp 2011



Campers in the storm

Weather Camp 2011



Campers in the storm

Weather Camp 2011



Campers in the storm

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Campers in the storm

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Campers in the storm

Weather Camp 2011



Campers in the storm

Weather Camp 2011



Campers in the storm

Weather Camp 2011



Experimenting with pressures

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Experimenting with pressures

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Barb Boustead, Forecaster at the U.S. National Weather Service

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At the National Weather Service (NWS) Office in Valley, NE

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Inside the forecast station at the NWS

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Playing with the Van De Graaff Generator

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Playing with the Van De Graaff Generator

Weather Camp 2011



Playing with the Van De Graaff Generator

Weather Camp 2011

MEASUREMENTS	HURRICANES	RECORDS	SEVERE STORMS	GENERAL WEATHER
\$100	\$100	\$100	\$100	\$100
\$200	\$200	\$200	\$200	\$200
\$300	\$300	\$300	\$300	\$300
\$400	\$400	\$400	\$400	\$400
\$500	\$500	\$500	\$500	\$500

Playing Weather Jeopardy at the NWS

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At the National Weather Service office in Valley, NE

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At Memorial Stadium

Weather Camp 2011



At Memorial Stadium

Weather Camp 2011



The Weather Camp tunnel walk

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Collecting weather data at Memorial Stadium

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Fun with weather instruments at Memorial Stadium

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Fun with Kestrels at Memorial Stadium

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At Memorial Stadium

Weather Camp 2011



At Memorial Stadium

Weather Camp 2011



At Memorial Stadium

Weather Camp 2011



Another weather discussion

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The whiteboard contains the following data:

	<u>A</u> <u>T</u>	<u>B</u>	<u>S</u>
Pressure	28.55 in	29.86 in	28.66 in
Temperature	28.50 in	29.77 in	28.48 in
Wind Speed	28.48 in	29.77 in	28.50 in
RH dewpoint			

Shade vs sun
color of turf

light colored sfc. reflect sunlight
darker colored sfc. absorbs sunlight

Follow up on Memorial Stadium data

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Working on their projects

Weather Camp 2011



Watching a live newscast at 10/11 News

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The campers watching a live weather cast

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At the news desk at Channel 10/11 in Lincoln

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Visiting with Brad Anderson, Broadcast Meteorologist at Channel 10/11

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Playing with the green screen

Weather Camp 2011



Playing with the green screen

Weather Camp 2011



Playing with the green screen

Weather Camp 2011



Playing with the green screen

Weather Camp 2011



9:00 PM

1011 PINPOINT
TIMECAST

30%

WIND
SSE 10-25

78°

TOSHIBA

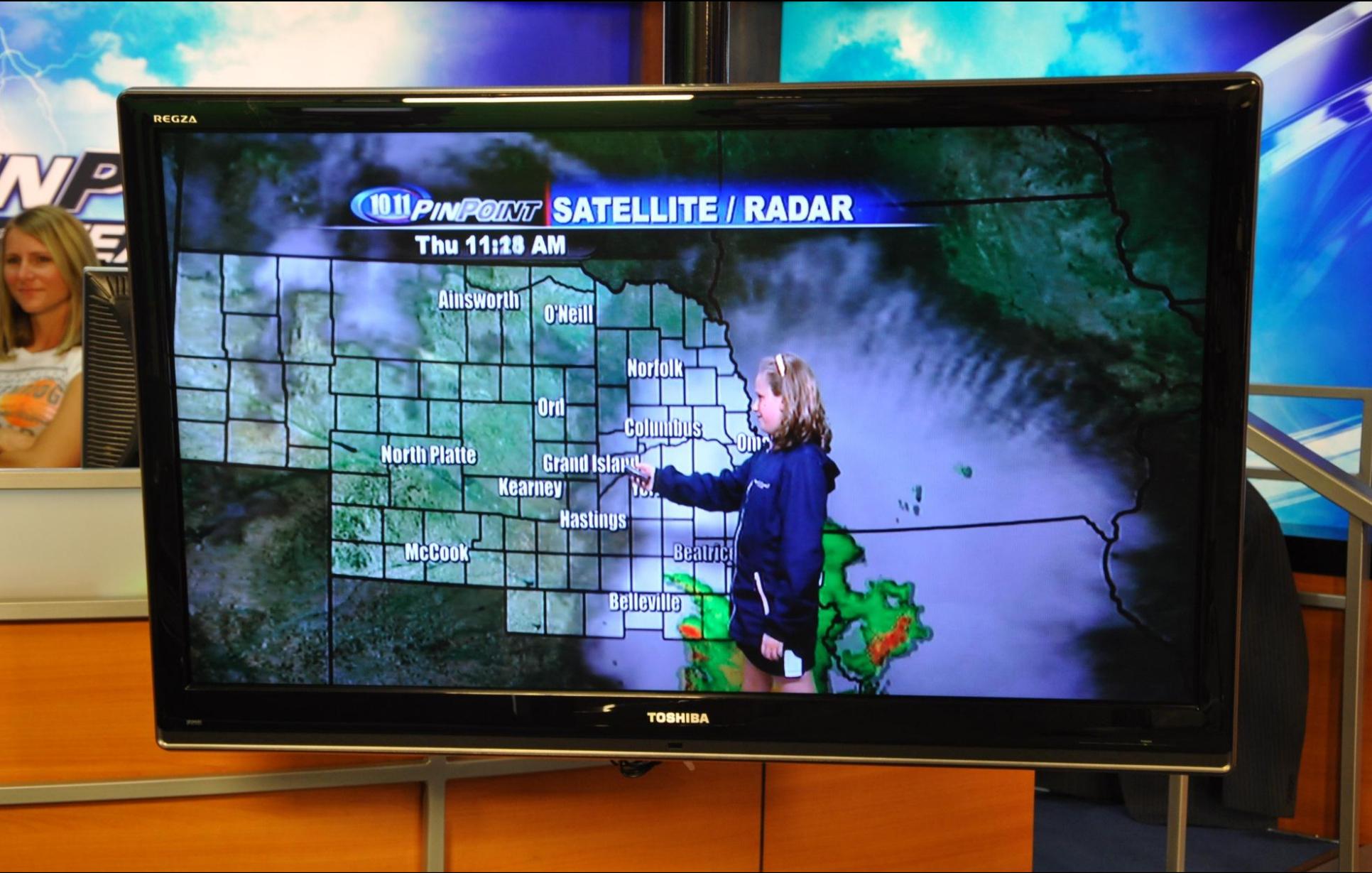
Playing with the green screen

Weather Camp 2011



Playing with the green screen

Weather Camp 2011



Playing with the green screen

Weather Camp 2011



Playing with the green screen

Weather Camp 2011

REGZA

1011 SKYVIEW LINCOLN

nebraska LOTTERY

CURRENT	70
S	13 MPH
DEW POINT	61
HUMIDITY	73%
PRESSURE	29.72"
FEELS LIKE	

TOSHIBA

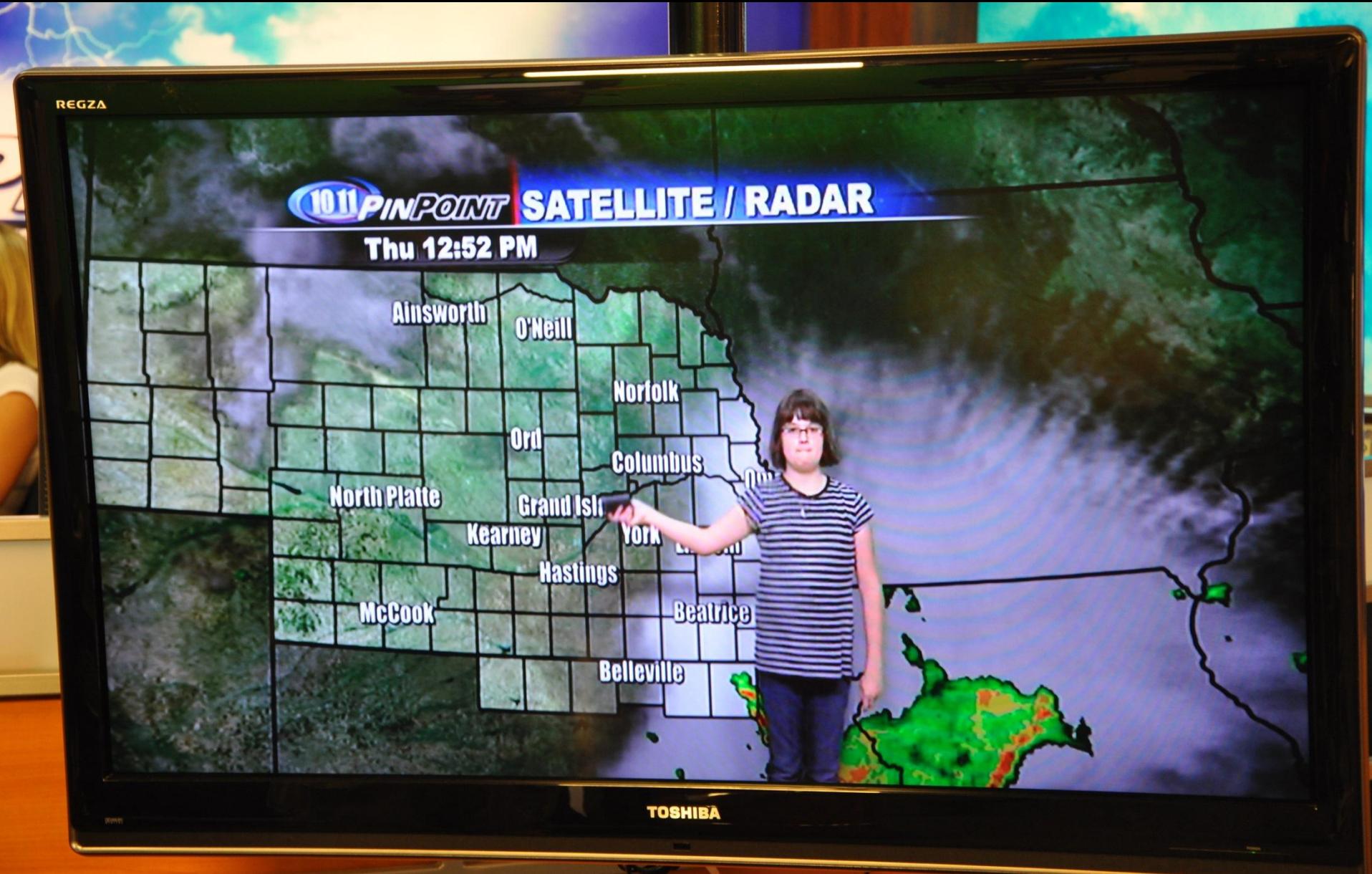
Playing with the green screen

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Playing with the green screen

Weather Camp 2011



Playing with the green screen

Weather Camp 2011



Playing with the green screen

Weather Camp 2011

REGZA

10.11 PINPOINT SATELLITE / RADAR

Thu 12:55 PM



TOSHIBA

Playing with the green screen

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A visit from the National Drought Mitigation Center

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Working on their drought monitor maps

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Working on their drought monitor maps

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Working on their drought monitor maps

Weather Camp 2011



Working on their drought monitor maps

Weather Camp 2011



Title, Author(s)
Information about storm
When did it happen
Where did it happen
Type of storm
What caused storm

Impacts
- human deaths
- buildings damaged
- travel disruptions
!!!

Fun Facts
- interesting
- funny people
- interesting

Username: snr-temp142
Password: SWcamp1233

Remember C drive -> My Documents

Don't forget
Search!

1991 Perfect Storm - Amber, Bree, Cydia
1996 Tupelo - Gimcoink Tornado Outbreak - Emma
St. Louis New Year's Eve Tornado - Ian
Schoolhouse Blizzard - Jessica

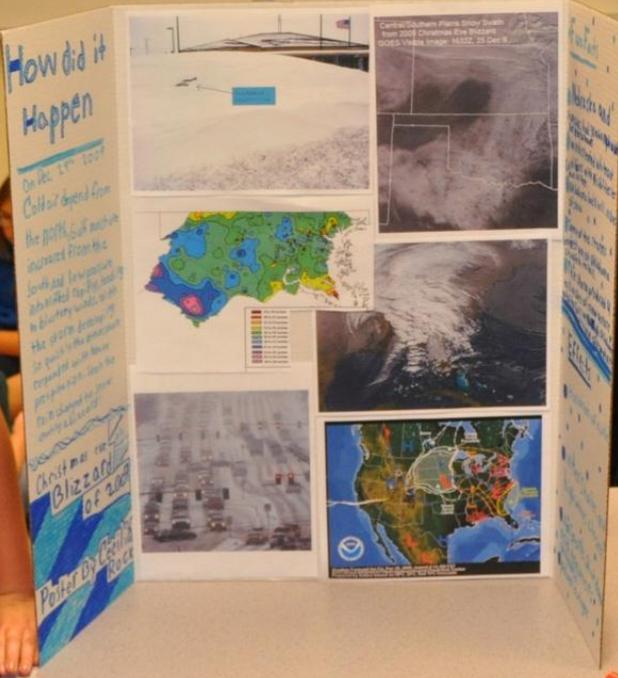
Blizzard 114!!!
Awesome Tornadoes 110!!!

How did it Happen

On Dec. 17, 2007
Cold air moved from the north, S.W. wind increased from the south. Inevitably, the low-level jet stream shifted north, and the storm system moved north. The storm system moved north. The storm system moved north.

What was the Blizzard of Dec. 2007?

Polar by Design

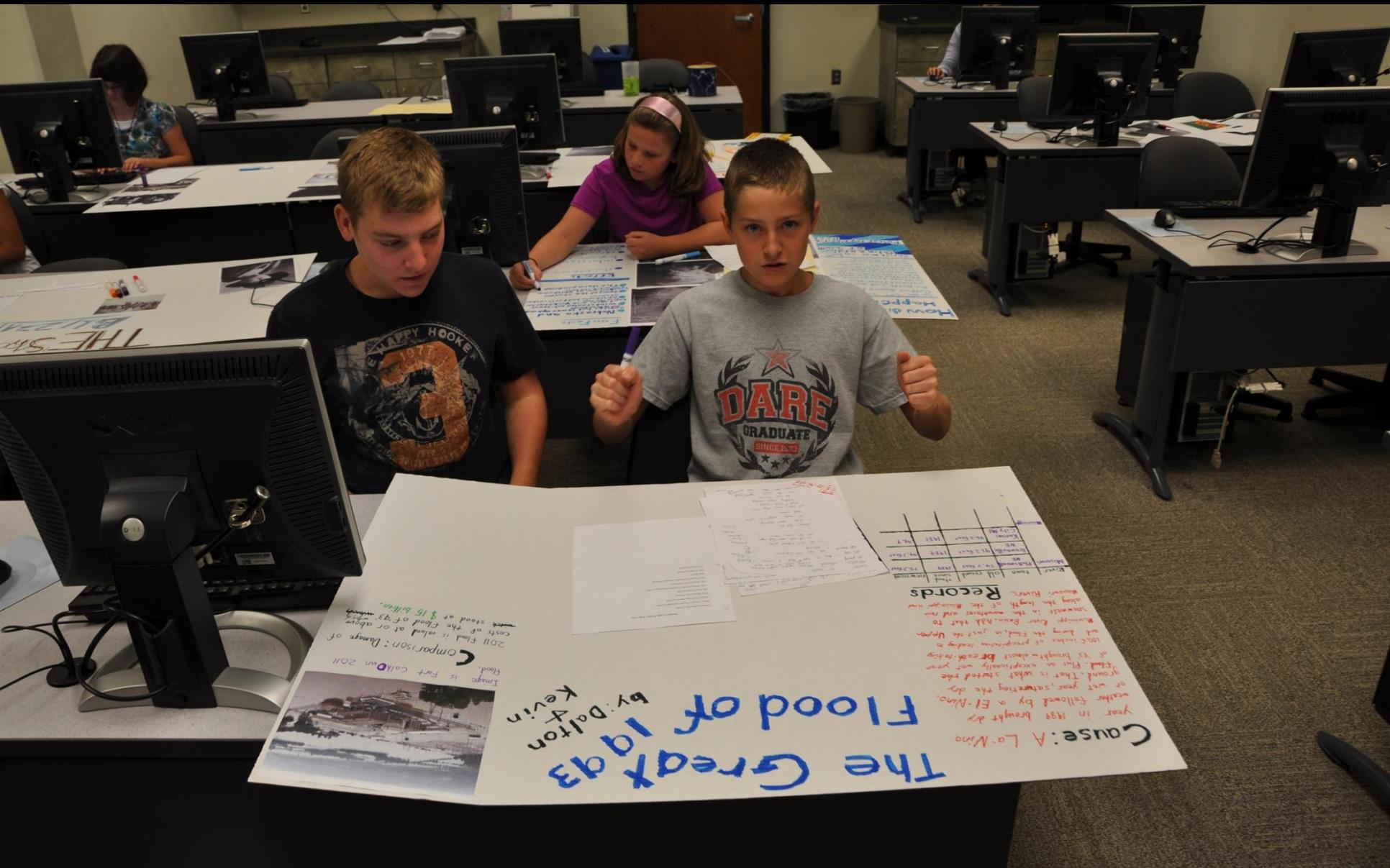


FAMOUS FACES

11/11/11

Working on their projects

Weather Camp 2011



The Great 1943 Flood of Idaho

By Dalton & Kevin

Year in 1943 brought dry weather followed by a El-Nino. or wet year, saturating the dry ground. That is what started the flood. Plus an exceptionally wet year at 43 brought in about 200 inches of precipitation leading to 1000 miles of flooding just in the Snake River Basin. Add that to Missouri River Basin. Add that to along the length of the Amazon and Amazon River.

Records

River Basin	All record years	1943
Snake River Basin	1943	1943
Missouri River Basin	1943	1943
Amazon River Basin	1943	1943

Comparison: Damage of 2011 flood is far called in 2011. Image is far called in 2011. 2011 flood is ranked at or above costs of the flood of 93. which stood at \$15 billion.



Working on their projects

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Working on their projects

Weather Camp 2011



Working on their projects

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Presenting their projects

Weather Camp 2011

High School

- Take as many math and science classes as possible
- Get involved with your local Ham Radio Club
 - Become a storm spotter!
- Volunteer at your local National Weather Service office, radio station, or tv station
- Get involved with your local chapter of the American Meteorological Society

How to be a meteorologist/climatologist

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Playing Meteoropoly

Weather Camp 2011



Playing Meteoropoly

Weather Camp 2011



Playing Meteoropoly

Weather Camp 2011



Completed projects

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FAMOUS FACES

Minnielraction is one of the most well known faces of the Great Children's Blizzard, by Tipping a tree to each of her standing she led them to her home half a mile away. She has been known as 'ALADY OF MEANS' she had four children.



Minnie Freeman

THE Schoolchildrens BLIZZARD

1888*
Jan 11 - Jan 12

AFTER the Blizzard



WHERE *

- NEBRASKA
- South Dakota
- North Dakota
- Minnesota
- MONTANA
- Wyoming
- Idaho

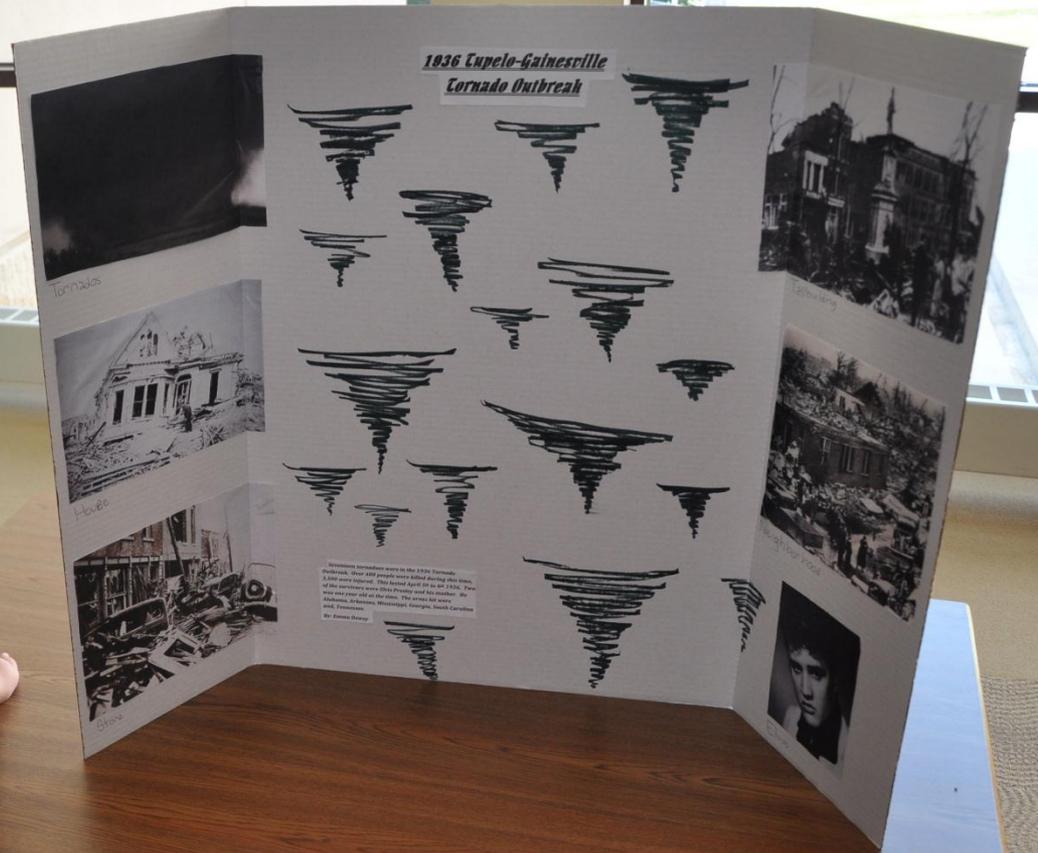
Jessica Baker



235 People died



Weather Camp 2011



Completed projects

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How did it Happen

On Dec. 24th 2009
Cold air depend from the north, Gulf moisture increased from the South, and low pressure intensified rapidly, leading to blustery winds. With the storm developing so quickly the atmosphere responded with heavy precipitation. Soon the rain changed to snow creating a blizzard!

Christmas eve
Blizzard of 2009

Poster By Cecilia Rock

Central/Southern Plains Snow Swath from 2009 Christmas Eve Blizzard
GOES Visible Image: 16322_25 Dec 9

Some of the storm's heaviest was at Oklahoma City/Wichita falls. The storm produced 4 to 9 inches of snow across Wichita falls up through Oklahoma City and saltwater!

Fun Facts

- Nebraska and Kansas had 30 to 60 mph wind for 18 to 20 hours
- Wind created whiteout conditions with visibilities less than 100 feet.
- Oklahoma had 8 toll inches of snow.

Effects

- Hundreds of injuries
- Interstates and highways closed!
- Airports shut down and travelers stranded
- power outages

Weather Camp 2011



Completed projects

Weather Camp 2011



Presenting projects to family and friends

Weather Camp 2011



Presenting projects to family and friends

Weather Camp 2011



Presenting projects to family and friends

Weather Camp 2011



Presenting projects to family and friends

Weather Camp 2011



Wrap up picnic

Weather Camp 2011



Wrap up picnic

Weather Camp 2011



Presentations and awards

Weather Camp 2011



Presentations and awards

Weather Camp 2011



Presentations and awards

Weather Camp 2011



Presentations and awards

Weather Camp 2011



Presentations and awards

Weather Camp 2011



Presentations and awards

Weather Camp 2011



All photos by Dr. Ken Dewey