

# Kiwanis

June 02, 2015

Tecumseh, Michigan, U.S.A.

**CLUB HAPPENINGS**

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## Today's Meeting News

### • Hosts

- **Presiding Officer**
  - **Jody Howard**



President Jody Howard

- **Reporter**
  - **Chuck Gehrke**
- **Photographer**
  - **Spencer Ruffner**
- **Publisher**
  - **Spencer Ruffner**
  - **Lana Archer**

### • Guests

- **We were guests at The LISD Center for Sustainable Future**

### • Announcements

### • No announcement from the president.

- **Chamber of Commerce Member of the Week:** No Chamber of

Commerce was announced. However, the chamber of Commerce member of the week is **Raisin Valley Golf Club.**



Cal Tuttle

Cal Tuttle thanked those who helped with flags for the Memorial Day holiday Terry Lighthall, Ron Publiski, Tom Meyer, Doug Bird, Dan Meikles dad, George Eidson, Mike Becker, Mary Tommelein and Bryan and Heather Masten. Megan for work setting up the routes and Ron Musselman for building flags and cutting sleeves. The flags will be put out again on Tuesday, June 9 prior to our need to be at MIS and retrieved on Tuesday the 16th. The Tecumseh Police found one of our flag and called Cal.



- Doug Bird asked members to make contact for the Travel and Adventure ads. He has already received some checks. Members are also asked to

obtain an email address and/ or contact name.

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- Spencer Ruffner announced there will be a Supervisors meeting at MIS on Monday at 3 PM and anyone that is interested is invited to attend.

Spencer also reminded members the CROP run is Saturday June 6 at 9:15. A sign-up sheet was circulated but no one signed up. We can sure use some help with the run. I need someone to pass out water at 2 mile point, call time at the 1 mile point. Lead the runners on a bike or car. No road crossing in this run, so no crossing support is needed!. Anyone that is available please show up in Macon at 8:30am to 10:00 am. Registration is at the white church.

Tom Meyer announced there is only one spot left open on the MIS schedule.

## • 50/50 Drawing

No drawing this week

## • Fine Session

There was no fine session but all in attendance were asked to pay the \$1 for making the 11 mile trip this morning.

## Special Fines and Happy Dollars



Mary Tommelein

- Mary Tommelein had a \$1 for Emily and Lucas the High School graduates who presented our program.
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## • Birthdays and Anniversaries

Anniversary celebrations upcoming on June 7 for Jack and Margaret Beach and Sharon and Kim Hawley.

• Program



Leslie Coates

Leslie Coates Science Consultant at the LISD told us about the solar tubs and LED lights powered by solar energy generated by solar panels in the building. The energy goes to a grid at Consumer's Power who keeps track of the amount of energy generated. The site produces all of its own energy needs and generated 30% more energy than used. A credit is returned to the site to help defray the energy expenses of other buildings on the premises.

What has been referred to for years as Geothermal Heat is really energy provided by ground Source Heat Pumps. The facility is heated in this way. The main building was constructed with extra insulation and sealed to prevent loss of energy. The main building including and attached green house are heated with in floor hot water.

The building cost 3.9 million to build. \$500,000 of that cost was for the alternative energy feature.





Emily Harke, Lucas Wielfaert

Emily Harke, an Adrian High School graduate will be attending Iowa State. She has been in FFA for 4 years. She will be studying Animal Science and Nutrition.

Lucas Wielfaert, a Britton-Deerfield graduate will be attending Michigan State University. He is also a 4 year FFA member stating that membership is an incredible opportunity for leadership training and credited the FFA for becoming more comfortable speaking in public. He has competed in public speaking and is a state officer in the FFA. He will be studying Commercial Horticultural Administration and Fruit and Flower Production.

Nationally FFA chapters are located in all 50 states, Puerto and the Virgin Islands. There are more than 60,000 members of the FFA. They also have 500 sponsors and companies supporting them.

The FFA emblem encompasses a number of symbols with specific meaning: Rising Sun for new opportunities, Owl for wisdom, Plow for Vice President, labor and soil, Kernel of Corn, Eagle and Agriculture Education.

Kiwanis members toured the campus as follows:



Horticulture classroom

Above is the Horticulture classroom with large refrigerator just to the right of the window. The green house is adjacent to this room.





**Roof of main building**

Roof area showing partly covered with plants. The Plants on the roof are planted in 4 inches of soil and have many varieties of drought tolerant flowers (many varieties of sedums plants) growing on it. The students grow new or different plants in flower pots shown along the railing.



**Sedum**





**Roof top (Left side not yet covered with dirt and plants).**

Lisa explained that the plants on the roof moderated the temperature extremes, keeping the roof cooler in the summer, warmer in the winter and protecting the roof membrane from the sun. The roof is designed to support the additional weight of the soil and plants.

The white square structures with the clear domes on the roof (on the left) in the above picture are solar tube lighting collectors with frosted glass defusers below providing natural day light into the class rooms.



**Solar panels are pictured on the roof in an area above the horticulture classroom (in front to the green house)**

Solar panels are mounted on top of the building.



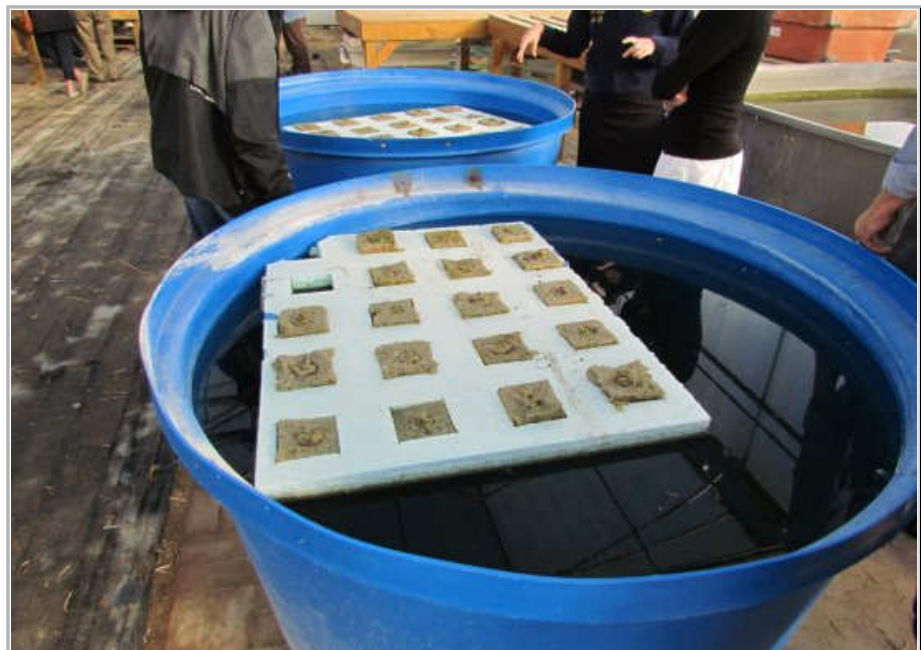


LISD Center for Sustainable Future main class rooms with green roof, attached green house and vegetable garden

Water that drains through the soil on the roof is directed to a 10,000 gallon under ground cistern. A pump that is on a timer pumps water from the cistern to irrigate vegetable plants and other plants on site through drip tubing intalled in the ground



Main garden front right. Green houses far right with hodroponic plants and Quail shown below





hydroponic plants in the green house with fish in the tank providing nutrients for the plants.

Bacteria convert ammonia and nitrite to nitrate for the plants



Japanese Quail

Sign posted near the cage of the Quail





Live stock - goat pictured

### • Future Meeting Responsibilities

Date	Note Taker	Greeters	Greeters	Invocation	Fines	Program Chair	Program Description
<b>June 9</b>	Carlton Cook	Jeff Seitz	Wendy Brys		Terry Lighthall	Gayle Hazelbaker	Lenawee's heart and Soul
<b>June 16</b>	Mary Tommelien				Ron Wimple	Jill Adams	8th Grade Rock and Roll Hall of Fame
<b>June 23</b>	Mike McAran				Mike Becker	Jody Howard	Kiwanis Budget 101
<b>June 30</b>				Ken Boyd		Jeff Seitz	Lindsey Reinarz -- The nature Conservancy



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