

OUT OF THE VAULT

Weston-McEwen students gear up for clock project

What started out as a fascination with one tooth of a gear and a snapshot in a magazine turned into a year-long project for two Weston-McEwen High School students intrigued by the idea of building a grandfather clock completely from wood.

Sean Calvert and James Albert began their odyssey into clockmaking in April 1993, just after finishing a unit on gear construction in Dave Lange’s Technology class at Weston-McEwen. The class allowed students to investigate everything from traditional carpentry to computer animation to architecture. Calvert and Albert, both juniors, happened upon a magazine article that featured an entirely wooden clock, complete with dozens of gears, pendulum and a boxed-in frame. Intrigued, they decided to build their own clock from scratch.

“You don’t realize how complex a clock is until you start building it,” said Calvert. “We though it would take three months.”

The magazine article had given them only the outside diameter of each gear and the number of teeth. They plugged those figures into 10 different formulas to figure out the mechanical

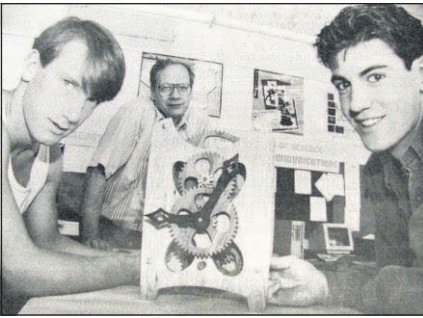
dimensions of each gear — no sweat for two guys enrolled in the highest math class at the school, math analysis. Calvert and Albert used AutoCAD to design the gears, then translated the designs to MasterCam to make the final adjustments.

Then a computerized numerical control milling machine was used to cut out each gear — in halves, because the machine wasn’t wide enough to cut the gears in one piece. Through trial and error, and many botched attempts, the duo soldiered on using their most important tool of all — seamless teamwork.

“They had to be problem solvers every day,” Lange said.

The most difficult, and most critical, gear was the escape wheel, which controls the weights and pendulum and gives the tick-tock to the clock. Albert wrestled for days with a scale and protractor to hand-design the spiky teeth. And the pair found that plywood made for “fuzzy” gears, so a three-tiered, cross-grained cherry and walnut sandwich was created for the precise edges they needed.

More than a year after that original article piqued their interest, Calvert



Weston-McEwen high school seniors Sean Calvert (left) and James Albert (right) hold the gears that form the foundation for the wooden grandfather clock they spent a year crafting from wood after a technology class with teacher Dave Lange (center) in 1993.

and Albert were scrambling to finish the last pieces of the clock in April of 1994 before their senior year ticked away. Calvert, the more analytical of the pair, studied the pieces to find and fix any problems. Albert, who planned a career in architecture, was carving a rounded gear frame to house the inner workings. Both vowed to continue working on the clock through the summer, hoping to finish the project before they went their separate ways to college.

But there would be no arguments over who got to keep the final product: the team made duplicates of each part, so each would go home with a clock.

DEAR ABBY

Mom still marks anniversary of marriage ending in divorce

Dear Abby: My parents were separated for most of my life and divorced 10 years ago. Dad and I don’t talk much, but we do get together for special occasions and visits during vacations. Mom and I speak frequently and see each other as often as possible.

My problem is, when I talk about doing things with Dad, she makes me feel guilty for not inviting her — even when my family is going to stay the night at Dad’s. And every year on the date of their anniversary, Mom never fails to remind me how long they would have been married that year. It’s uncomfortable, and I have told her that, but every year I get the call wondering why I haven’t acknowledged their anniversary.

Am I wrong in thinking it’s strange to wish someone happy anniversary when the couple is no longer together and hasn’t been for a decade? Am I wrong for not inviting her along for the few visits with my dad? I’m at the point where I avoid



JEANNE PHILLIPS Advice

talking about him, but I can’t lie when I’m asked directly what our plans are. How can I stop these uncomfortable conversations? — **Uncomfortable In The South**

Dear Uncomfortable: Please stop letting your mother make you feel guilty. You have done nothing wrong. She is acting like she’s still married to your father and their divorce is simply a “vacation” he has taken.

If she asks if she can come with you when you visit your dad, an appropriate response would be to suggest she ask HIM that question. And her expecting to be congratulated for the anniversary of a marriage that failed strikes me as bizarre. Because these conversations make you uncomfortable, change the subject or talk with her another time.

Dear Abby: My husband owns a restaurant. It’s a demanding endeavor, and I help him out by running weekly errands, marketing, and occasionally fronting money for larger purchases or unplanned

expenses. Generally, I don’t mind. I have years of hospitality experience and some schooling in the field.

For the past few days, I have been fuming because my husband hired a man with whom we have a bad history. He dates my cousin and has been blatantly rude to my family. He has taken advantage of their kindness and turned my cousin into someone she was not before. (She’s doing drugs.)

When I asked my husband if he really thought this was a smart choice, he said, “You don’t own the restaurant. It’s none of your business!” I disagree. Shouldn’t I have a say when I help that place function week after week? Or is he right? — **Miffed In Missoula**

Dear Miffed: When you asked your husband the question you did, it clearly hit a nerve or he wouldn’t have become defensive. Because you have been putting money into the business to keep it going, you should be able to offer an opinion about how it is run and have it be respected.

DAYS GONE BY

100 Years Ago
From the East Oregonian
April 28-29, 1918

Lieutenant Marshall Spell who left here with Troop D and who has since been shifted around in various departments, has been doing some high flying in France and he describes his feelings on the subject somewhat as follows: “The first flight was sure some sensation, but now that I am accustomed to it I would a whole lot rather ride in the air than with Roy Ritner or Roy Alexander in an auto.” He got his experiences in the air while with the aero observation school and, in a letter received this morning by Carl Cooley, states that altogether he had been in the air about 12 hours, had risen as high as 10,000 feet and several times nearly froze to death. Taken all in all, however, he says he prefers to be on terra firma and got transferred to the ammunition train which isn’t exactly

safe work even if operations are done at nighttime.

50 Years Ago
From the East Oregonian
April 28-29, 1968

Who will be the first to find for science a meteorite in Eastern Oregon? Chances are that people already have picked up meteorites in this part of the state without recognizing them. Years ago a farmer plowing a field may have uncovered a large stone, cursed it for being in the way, picked it up and thrown it onto his stone row, not realizing it was from outer space. Oregon, one of the larger states in the West, has had only four authentic meteorite discoveries. This is the year to find them. Erwin F. Lange, professor of general science at Portland State College, Hollis M. Dole, director of the State of Oregon Department of Geology and Mineral Industries, and Phil Brogan, science writer

and former associate editor of the *Bend Bulletin*, have designated 1968 as “The Year of the Meteorite” in Oregon.

25 Years Ago
From the East Oregonian
April 28-29, 1993

Pendleton’s Aaron Stark captured the high school triple crown with a championship in the 191-pound division at a statewide freestyle wrestling tournament on April 24-25 in Medford. Stark, a senior at Pendleton, finished the regular season with a state 4A championship in March. He went on to win a state Greco-Roman tournament two weeks ago and then the state freestyle on Sunday. “There are only three kids in the entire state that did that,” said Dale Freeman, Pendleton coach. “And Stark is only the second Pendleton wrestler ever to win the triple crown.” David Boor, a Pendleton heavyweight, won the triple crown in 1987.

THIS DAY IN HISTORY

On April 28, 1788, Maryland became the seventh state to ratify the Constitution of the United States.

In 1758, the fifth president of the United States, James Monroe, was born in Westmoreland County, Virginia.

In 1789, there was a mutiny on the HMS Bounty as rebelling crew members of the British ship, led by Fletcher Christian, set the captain, William Bligh, and 18 others adrift in a launch in the South Pacific. (Bligh and most of the men with him reached Timor in 47 days.)

In 1918, Gavrilo Princip, 23, the assassin of Archduke Franz Ferdinand of Austria and the archduke’s wife, Sophie, died in prison of tuberculosis.

In 1925, the International Exposition of Modern Industrial and Decorative Arts, which gave rise to the term “Art Deco,” began a six-month run in Paris.

In 1940, Glenn Miller and his Orchestra recorded “Pennsylvania 6-5000” for RCA Victor.

In 1945, Italian dictator Benito Mussolini and his mistress, Clara Petacci, were executed by Italian partisans as they attempted to flee the country.

In 1958, the United States conducted the first of 35 nuclear test explosions in the Pacific Proving Ground as part of Operation Hardtack I. Vice President Richard Nixon and his wife, Pat, began a goodwill tour of Latin America that was marred by hostile mobs in Lima, Peru, and Caracas, Venezuela.

In 1967, heavyweight boxing champion Muhammad Ali was stripped of his title after he refused to be inducted into the armed forces. U.S. Army Gen. William C. Westmoreland told Congress that “backed at home by resolve, confidence, patience, determination and continued support, we will prevail in Vietnam over communist aggression.”

In 1974, former Attorney General John Mitchell and former Commerce Secretary Maurice H. Stans, accused of attempting to interfere in a Securities and Exchange Commission probe of financier Robert Vesco in exchange for a \$200,000 contribution to President Richard Nixon’s re-election campaign, were acquitted of all charges by a federal jury in New York.

In 1988, a flight attendant

was killed and more than 60 persons injured when part of the roof of an Aloha Airlines Boeing 737 tore off during a flight from Hilo to Honolulu.

In 1993, the first “Take Our Daughters to Work Day,” promoted by the New York-based Ms. Foundation, was held in an attempt to boost the self-esteem of girls by having them visit a parent’s place of work. (The event was later expanded to include sons.)

In 1996, a man armed with a semiautomatic rifle went on a rampage on the Australian island of Tasmania, killing 35 people; the gunman was captured after a 12-hour standoff at a guest cottage, and is now serving a life prison sentence.

Today’s Birthdays: Former Secretary of State James A. Baker III is 88. Actress-singer Ann-Margret is 77. Actor Paul Guilfoyle is 69. Former “Tonight Show” host Jay Leno is 68. Rock singer-musician Kim Gordon (Sonic Youth) is 65. Actress Nancy Lee Grahn is 62. Supreme Court Justice Elena Kagan is 58. Rapper Too Short is 52. Actress Bridget Moynahan is 47. Actor Chris Young is 47. Actor Jorge Garcia is 45.

Actress Elisabeth Rohm is 45. Actress Penelope Cruz is 44. Actor Nate Richert is 40. TV personalities Drew and Jonathan Scott are 40. Actress Jessica Alba is 37.

Thought for Today: “If youth only had a chance or old age any brains.” — *Stephen Leacock, Canadian humorist-educator (1869-1944).*

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- Game show: “The ____ is ____” ☐
- Second U.S. president (first/last name) ☐
- Predict ☐
- Ridley Scott sci-fi movie ☐

Answers to Saturday's puzzle: DENMARK, ZEEA, BEAL, IENDECNT, RSR, YJNNS, IIPC, AMCU, HAERHYRY, ZAHOLRPGKIP, IDJEOVAEVCGR, LACFINLANDHU, YICHI, LELBRTS

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7 LITTLE WORDS

Find the 7 words to match the 7 clues. The numbers in parentheses represent the number of letters in each solution. Each letter combination can be used only once, but all letter combinations will be necessary to complete the puzzle.

- | CLUES | SOLUTIONS |
|-------------------------------------|-----------|
| 1 backyard load hauler (11) | _____ |
| 2 hide with a pretty veneer (9) | _____ |
| 3 one-on-one climactic battle (8) | _____ |
| 4 one using a lathe (10) | _____ |
| 5 suit for the seashore (8) | _____ |
| 6 having no natural light, say (10) | _____ |
| 7 building in a Bob Dylan song (10) | _____ |



ODDS & ENDS

For Trump lookalike, crops mean more than social media fame

By ARITZ PARRA
Associated Press

MADRID — A woman in Spain has found unexpected fame on social media after many found she bore a striking resemblance to U.S. President Donald Trump.

A journalist reporting on farming in northwestern Spain posted on Instagram a picture of Dolores Leis dressed in farm clothing with a hoe over her shoulder, prompting thousands of responses.

The 64-year-old has since been asked to comment on pressing U.S. policy and international



Paula Vazquez via AP

Dolores Leis stands in a field on her farm in Galicia, in northern Spain on April 19.

issues — though she has shown more concern for a moth plague threatening her potato crops.

“I say that it must be because of the color of the hair,” Leis told the La Voz de Galicia newspaper Tuesday

BINGO

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7	●	39	59	17
17	41	●	71	
8	16	32	56	●

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