

**NOTE: These are “proposed” minutes and will not be approved until the Jan. 23, 2018 School Board Meeting**

4:00 p.m.  
Administration Center

Tuesday  
January 9, 2018

**BOARD MINUTES**

CALL TO ORDER – President David Black called the January 9, 2018 meeting of the Board of School Trustees to order at 4:00 p.m. All Board Members were present. Others in attendance included Jane Allen, Superintendent, Robby Goodman, Asst. Superintendent, Mark Snyder, Director of Business Services, Jeff Palmer, Director of Buildings and Grounds and Michelle Willey, Director of Transportation.

**SUPERINTENDENT’S REPORT-**

Announcement of Retirements at the end of the 2017-2018 school year.

- The following teachers and classified employees are retiring at the end of the 2017-2018 school year.
  - Cathy Morgan, Elementary Education Director, 37.5 years at MCS.
  - Lucy Dickey, Grade 1 Teacher at MES, 39 years at MCS.
  - Jane Oyer, nurse at Orchard View Elementary
  - Mary Jo Thomas, NHS Cafeteria Worker

Report of NHS Advanced Manufacturing Class Partnership with Arbor Industries.

Mrs. Allen introduced Eric Highly, Project Lead the Way NHS Teacher and Dave Sheely, from Arbor Industry. Others introduced during the presentation were Drew Wood, NHS Principal, and additional management from Arbor Industries - Dave Baylis, Dustin Cocanower, and Adam Calfee. Students Rickey Howie, Dan Wickersham and Spencer Thomas talked and showed the work they did in their class. Everyone was amazed at what they accomplished. Approximately 35 students worked on this project. Mr. Sheely thanked Mrs. Allen and Mr. Wood for their help in getting this program started at NHS - they’ve wanted it for a long time. Two students at NHS are doing an internship at Arbor Industries this semester. Board members were given a hand-out which showed information about the class and the differences in the wood pieces the Manufacturing class made.

- **Abstract** A manufacturing project for Arbor Industries was completed beginning in September and ending in December, 2017. Arbor Industries and the Advanced Manufacturing and Computer Integrated Manufacturing (CIM) classes at NHS helped in the production of a specific RV part using rapid processing. The classes were asked to produce 500 parts a week. In the beginning, the classes were shown a nesting that produced 50 parts per board. Even though the 50 parts per board worked well, the classes wanted to create a more efficient nesting that would maximize production and cost efficiency.
- **Nesting Progression** Throughout the course the nesting advanced from a 50-piece version to a 96-piece version. Students also used a 60-piece version before they finished designing the 96. With each new layout the students increased cost efficiency to eliminate material waste. The 50-piece layout worked extremely well for boards that were warped and they could run this nesting with ease on their router. While this was good for production it was not good for the efficiency and material waste. The class sought out to improve these two categories and came upon a 60-piece nesting that reduced the material waste and increased the efficiency. However, even though the 60-piece nesting was an improvement, there was still a large amount of material waste. They began to search for a nesting that had an equal balance of waste material and efficiency and created a 96-piece nesting. That was extremely efficient and only had a waste percentage of 33.24% (50-piece waste percentage was 65.23% and 60-piece waste percentage was 58.27%).

- **Concepts** The CIM class was introduced to the concept of nesting parts for this project. The primary goal of the CIM class was to nest as many parts onto a given sheet of plywood within the given CAD software. The advanced manufacturing class would then take this design and take the necessary actions to cut out the parts, and package them. This exchange from the design phase to the manufacturing phase teaches both classes the idea of maintaining interpersonal relationships with a business. While the instructor did initiate contact with Arbor Industries, it is the job of the students to describe intelligently the processes used to carry out the project; this ability to interact with businesses and people eloquently is a value resource when working at most any job. Neither class had any help in working on this project. As a result, a lot of experience was to be had with troubleshooting, particularly when it came to running simulations and in the operation and maintenance of the CNC router.
- **Reflections** Throughout the project the class continued to increase in efficiency, which was one of their goals. Although they made many improvements in their process throughout the semester, there are still a few things they would change to some parts of their project if we were to do this again. Arbor Industries believes in training and mentoring young students and were thoroughly impressed with these students. They are doing a fantastic job and will have a great future in manufacturing. Mr. Wood thanked Arbor Industries for working with MCS. They are looking for people that are ready to do the job now, be part of a team, and be able to build their skills and be a part of this community. That's easy to work with, as a high school principal, because he's sending students to someone that is going to treat them well. He really appreciates his teachers. This is the coolest thing to watch, talking about engaging students in the classroom, well here you go! These are 21<sup>st</sup> century skills, soft skills, and engagement in the classroom, and kids are really learning with this pilot program. This is where we are today, preparing our students and being ahead of the curve.
- Mrs. King asked how many students (at full capacity) could you have in an internship program at Arbor Industries? Mr. Sheely said they want to make sure they do it right, on the onset they could have 2 in the morning and 2 in the afternoon. Part of their deal is mentoring the students. She appreciates all they have put into this effort. She was on the phone today with Indiana State Chamber and one of the things that they are really looking at is how to elevate education in the state of Indiana. You do that and you're going to impact your work force. The one word they kept talking about was connectivity. How do you connect education with what's really happening out there? This is a very practical and real example of what can work and will work and help to show our students the kinds of jobs that are out there. The fact of the matter is as long as you don't stop learning. The example shown tonight was how do you take a board with 50 units and increase that and in doing that what are some of the benefits in increase it. Not that you've just come up with more components which decreases the amount of waste you have. The things students are learning in the classroom are relevant after they are out of school. She thanked the students, teachers and Arbor Industries for coming today. She thinks it's incredible these students are seeing a whole difference side of education and careers in the future. This is really great – good stuff!
- Mr. Black said the "fight" between engineering and manufacturing is being able to get along. Next year it will be 50 years for him but he did work with one engineer that was the smartest guy he worked with. They built a product that he came out and drew it. Mr. Sheely said sometimes it's hard to get new ideas because the manufacturing floor is stuck on doing it one way. One thing his industry has embraced is change, everything is totally different than 20 years ago. All of his business now is pretty much based on technology, where before it was get out the tape measure and saw the board. He invited board members to come out and see what Arbor Manufacturing is doing – they will give them a tour. He looks at this as a pilot program for Middlebury, if they expand it that would be great! The board thanked everyone for coming.

EXPRESSIONS FROM PATRONS – None.

CONSENT AGENDA –

- Minutes from the December 5, 2017 School Board Meeting
- Claims Lists
- Personnel
- November 2017 Financial Report

Mr. Souder moved and Mr. Miller seconded a motion to approve the Consent Agenda as presented. The motion was approved with a vote of 5-0.

BOARD REORGANIZATION –

- Mr. Souder moved and Mrs. King seconded a motion to appoint Dave Black as School Board President. The motion was approved with a vote of 4-0. Mr. Black abstained from voting.
- Mr. Gayler moved and Mr. Souder seconded a motion to appoint Joanna King as School Board Vice President. The motion was approved with a vote of 4-0. Mrs. King abstained from voting.
- Mr. Miller moved and Mr. Gayler seconded a motion to appoint Bob Souder as School Board Secretary. The motion was approved with a vote of 4-0. Mr. Souder abstained from voting.
- Mr. Souder moved and Mrs. King seconded a motion to appoint Mark Snyder as Corporate Treasurer. The motion was approved with a vote of 5-0.
- Mr. Miller moved and Mr. Souder seconded a motion to appoint Dave Black as the ISBA Legislative Liaison. The motion was approved 4-0. Mr. Black abstained from voting.
- Mr. Gayler moved and Mr. Souder seconded a motion to appoint Scott Miller as the boards Dollar’s for Scholars representative. The motion was approved with a vote of 4-0, with Mr. Miller abstaining.
- Mrs. King moved and Mr. Gayler seconded a motion to appoint Warrick and Boyn as Corporation Attorneys as presented. The motion was approved with a vote of 5-0.

CONSIDER APPROVAL OF DONATIONS TO NORTHRIDGE HIGH SCHOOL – Mrs. Allen asked for approval of the following donations for Northridge High School.

- Patrick Industries (car) \$1,500
- Middlebury Golf Classic (Boys Golf) \$1,000
- Middlebury Golf Classic (Girls Golf) \$1,000
- Dollars for Scholars \$1,000

(Middlebury Men’s Club) End of year awards

Mr. Miller moved and Mr. Souder seconded a motion to approve the donations for Northridge High School as presented. The motion was approved with a vote of 5-0.

MIDDLEBURY PUBLIC LIBRARY APPOINTMENT – Mrs. King moved and Mr. Miller seconded a motion to approve Kristopher Schlabach for a 3-year term to the Middlebury Public Library as presented. The motion was approved with a vote of 5-0.

AMENDMENT TO THE 2018-2019 SCHOOL CALENDAR – Mrs. Allen indicated the only change was Martin Luther King’s birthday was incorrect on the original calendar approved. That change has been made. Mr. Gayler moved and Mr. Souder seconded a motion to approve the motion as presented. The motion was approved with a vote of 5-0.

CONSIDER APPROVAL OF DONATIONS TO NORTHRIDGE MIDDLE SCHOOL – Mrs. Allen asked for approval of the following donations for Northridge Middle School.

- M.I.B.CO., INC (Life Skills Day) \$ 500
- COULTER, INC. (Life Skills Day) \$1,200

Mr. Miller moved and Mr. Gayler seconded a motion to approve the donations as presented. The motion was approved with a vote of 5-0.

UNFINISHED BUSINESS – None

ANNOUNCEMENT OF FIELD TRIPS – Board members reviewed the list of field trips.

ANNOUNCEMENT AND CORRESPONDENCE –

- Congratulations to our NHS girls' basketball player, Brook McKinley, who reached 1,000 points. It's the first time in MCS history a girl has achieved that in basketball.
- Science Olympiad Invitational is January 20<sup>th</sup> from 9:00 to 3:00.

ANNOUNCEMENTS FOR TRAVEL – Board members reviewed the list of travel requests.

EXPRESSIONS FROM BOARD MEMBERS –

- Mr. Gayler thanked Arbor Industries. It was apparent the passion that organization has for helping our students and our community. It really translated to our students in the passion and excitement they showed. This is wonderful story that we need to get out to all of Elkhart County because there are shortages in good skilled help and this a wonderful way to get our students ready for the real world.
- Mrs. King said something as practical as taking a piece of wood and figuring out how to get 50 to 96 pieces is something. That learning process will be used for the rest of your life. Learning how to make things better, learning how to make the outcome better, learning how to change things radically. She loved that this group of guys talked about mentorship, continuity, and they talked about things that are really important. She would like to see other businesses offer internships and scholarships. Thanks to those who came tonight
- Mr. Souder wanted to piggyback on what Mrs. King said. It was really exciting to see the passion that they have to include students within this community. To be involved and help encourage students. It was awesome.
- Mr. Miller loved the teamwork aspect of the marketplace and the schools working together to equip our students for the future. Good stuff.
- Mr. Black said anytime we can set a stage for a student to be able to gain information and they figure out how to work it out – that's the important thing.

OTHER BUSINESS – None

ADJOURNMENT – Mr. Souder moved and Mr. Miller seconded a motion to adjourn the January 9, 2018 school board meeting at 5:02 p.m. The motion was approved with a vote of 5-0. The next scheduled school board meeting will be January 23, 2018 at 4:00 p.m.

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David Black, President

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Joanna King, Vice President

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Robert Souder, Secretary

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Scott Miller, Member

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Paul Gayler, Member