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STEM CAREERS

the **BUZZ**
 DIDI NEWSLETTER

Sept. 2018

AREA DIRECTOR HIGHLIGHTS



The NAMC is always
 looking to expand our
 Area Directors

2018 DREAM IT. DO IT. AMBASSADORS

2018 marks the 11th year with Husker Sports Network and interviews of DIDI Ambassadors with Greg Sharpe, and new this year we are adding News Channel Nebraska to our lineup—including Telemundo and Radio Lobo (Hispanic news and radio) and live streamed high school sports broadcasts.



2018 DIDI Ambassadors

The 2018 DIDI Ambassador Team met in August to record interviews with Greg Sharpe (Voice of the Huskers) and TR Raimondo (NAMC Chairman) for the Husker Sports Network radio program.

The ambassadors also toured Memorial

Stadium and enjoyed a “sneak peak” of the upgraded tunnel walk (a work in progress at the time). *Continued on page 2 ...*

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2018 - DREAM IT. DO IT. SCORECARD

STUDENTS (<i>tours/booths/presentations, etc.</i>)	9025
CAREER FAIRS	439
EDUCATORS/BUSINESS/COMMUNITY/ETC. (<i>tours/presentations/mtgs.</i>)	1557
DIDI Meetings	666

2018 DIDI Ambassadors, cont.

Spotlighting young adults with rewarding careers in advanced manufacturing and related businesses.

2018 DREAM IT. DO IT. AMBASSADORS

Valmont Kelly Bodnar NDT Technician Associates, Nondestructive Testing	Behlen Mfg. Co. Jacob Forbes Engineering Technician Associates, Architectural Drafting	Union Pacific Nikki O'Connor Train Dispatcher Business Degree
Pinnacle Bank AJ Fruchtl Management Trainee Business Degree	Nebraska Public Power District August Wagner Land Surveyor Associates, Land Surveying	BCBS Nebraska Jonathan Allou Business Analytics Intern Computer Science Degree
Molex Paul Ahrens Controls Engineer Associates, Electromechanical Tech	Schneider Electric Zola McFarland Engineering Intern Pursuing Ag Engineering Degree	NMC, Inc. Tim Clough Technician Associates, Diesel Technology
IBEW Jennifer James Electrical Apprentice IBEW Apprentice Training	RSM US Luke Volz Assurance Associate Accounting Degree	
Nucor Steel Nebraska Tyler Rigby Mechanical Engineer Mechanical Engineering Degree	Conductix-Wampfler Dylan Wheeler Precision Machinist Associates, Machine Tool	Lozier Corporation Jonathan Berger Import Product Design Eng. Mechanical Engineering Degree

**NEWS CHANNEL NEBRASKA
SCHEDULE FOR LIVE-STREAM & TELEVISION
BROADCASTS OF HIGH SCHOOL SPORTS**
www.ncnsportsnow.com

9/4	VB: Lakeview @ York	
	VB: Crofton @ Hartington CC	FB-Football
9/6	SB: Seward @ Beatrice	
9/7	FB: Ralston @ Beatrice	VB-Volleyball
	FB: Norfolk @ Kearney	
9/11	VB: Scots @ Aquinas	SB-Softball
	VB: Boyd County @ Ewing	
9/13	VB: Kearney @ Grand Island	
9/14	FB: Fremont @ Columbus	
	FB: Osmond @ Laurel Concord Coleridge	
9/18	VB: Grand Island @ Columbus	
	VB: Wayne @ Norfolk Catholic	
9/20	VB: Fairbury @ Beatrice	
9/21	FB: Fairbury @ Aurora	
	FB: Battle Creek @ Stanton	
9/24	SB: Lakeview @ Crete	
9/25	VB: Scotus @ Lakeview	
	VB: Fremont @ Norfolk	
9/27	VB: Milford @ Wilber Clatonia	
9/28	FB: Columbus @ Creighton Prep	
10/2	VB: GICC @ Aurora	
	VB: Stanton @ Howells Dodge	
10/4	FB: Grand Island @ Millard West	
10/5	FB: Scotus @ Lakeview	
10/11	FB: Centennial @ David City	
10/12	FB: Hastings @ Beatrice	
10/15	VB: Norfolk @ Lincoln East	
10/16	VB: Grand Island @ Fremont	
	VB: Laurel Concord Coleridge @ Ponca	
10/18	FB: Omaha Northwest @ Columbus	
10/19	FB: Lincoln East @ Grand Island	
10/23	VB: Aquinas @ GICC	
10/25	8 Man Playoffs 1st Rd	
10/26	11 Man Playoffs 1st Rd	
10/31	8 Man Playoffs 2nd Rd	
11/2	11 Man Playoffs Quarterfinals	
11/6	8 Man Playoffs Quarterfinals	
11/9	11 Man Playoffs Semifinals	
11/12	8 Man Playoffs Semifinals	

Video commercials will air online and on television towards the end of the game highlighting the "Player of the Game"

These young adults from sponsor companies are now front-line ambassadors for students—highlighting careers and education paths in their areas. They are encouraged to promote careers in advanced manufacturing and related businesses through various career awareness activities.

The Husker Radio interviews will be aired on Thursday nights prior to Husker home football games on the **Husker Sports Nightly radio program** after the Coach's interview (airs 6:00—9:00 PM). The interviews can also be seen on the DIDI website: www.dreamitdoitnebraska.com/career-dream-team—click on an ambassador to see a video of their interview. The Huskers.com website will feature a click-through banner ad that will lead to the full interviews on the DIDI website.

In addition to above, :30 second commercials will be aired during the Coach's pre-game radio show prior to each Husker football game (on Husker Radio Affiliate Stations) and **:30 second video and radio commercials will be aired on News Channel Nebraska during live streaming of high school sports.**

MANUFACTURING MONTH OCTOBER 2018

National Manufacturing Day is October 5th and Nebraska will be celebrating **Manufacturing Month** during October. Last year over 60 companies in Nebraska opened their doors to hundreds of students, spotlighting the great opportunities in their community. Nationally there were over 2,800 events recorded on the Mfgday.com website.

LET'S MAKE THIS YEAR'S MANUFACTURING MONTH BIGGER THAN EVER IN NEBRASKA!

DIDI encourages opening your doors to students in efforts to connect with the future workforce and highlight the skills, education and careers in manufacturing and related businesses. Go to **MFGDAY.COM** for more information.

Students touring companies learn:

- **Careers that are in the community.**
- **What companies make, do and look like.**
- **Skills and education needed for advanced manufacturing careers.**



Contact Juli Thelen at DIDI to showcase what your community is doing for Manufacturing Month!
Juli.thelen@behlenmfg.com | (402) 563-7268

AREA DIRECTOR HIGHLIGHTS

Columbus

Area Director—Kara Asmus

REGISTERED APPRENTICESHIP PROGRAM

Behlen Mfg. Co. has partnered with Columbus Public Schools, Central Community College and the Dept. of Labor to set up a **Registered Apprenticeship Program**.

The apprenticeship program allows area students to receive first-hand work experience and training at Behlen Mfg. Co. through two apprenticeship programs, the Industrial Technician apprenticeship with Columbus High School (CHS) and a Welding Apprenticeship, which is open to all area students including those attending Central Community College.



Signing the documents to set up the Registered Apprenticeship Program (L to R) John Albin, Commissioner of Labor; Troy Loeffelholz, Superintendent, Columbus Public Schools; Debra Cremeens-Risinger, US Dept. of Labor; Phil Raimondo, CEO, Behlen Mfg. Co.

Tyler Bertsch, Corporate Trainer at Behlen Mfg. Co. had this to say:

"This partnership allows students to see the industry and real-life jobs at the same time, get exposed to different careers. They get paid to learn, and get experience—so they basically earn as they learn."

"We are really excited about this opportunity," said Phil Raimondo, CEO of Behlen Mfg. Co. Phil hopes that other companies in the community will work with high school students through internships and/or an apprenticeship program to help students gain on-the-job experience as they learn about careers in the community.

Reece Schmidt, a senior at CHS and one of the first students in the apprenticeship program hopes one day to be a welder. He has been working through the summer rotating through different departments at Behlen and is looking forward to continuing to work through the school year. "Hopefully this opportunity will be ongoing for as long as it can... I hope to keep increasing my skills and continue working at Behlen."

AREA DIRECTOR HIGHLIGHTS

Kearney

Area Director—Elizabeth Roetman

Career and Entrepreneurship Camp

was held the first 2 weeks of June and attended by 27 students. This camp teaches the kids about profit and loss and also how to build business plans, while making it a fun and engaging experience. The kids had 4 days to come up with their business idea and make a plan to create and market it.



Picture Left: Students at the Career and Entrepreneurship camp with Senator Lowe. Below—Downtown Night Market, the students present and sell their products to the public.

During the Career and Entrepreneurship Camp, members of the Kearney Area Chamber of Commerce **Young Professionals Network** spent time talking to the Sunrise Middle School Students on career paths and entrepreneurship. There were many different careers represented including an engineer, insurance agent, business owner, and manufacturer. After the discussion students presented their business pitches for the product they would be selling at Night Market in 2 days.



The students came up with some great ideas and received good feedback from the YPN. Some of the ideas presented were: Mandles—candles with a manly scent; Stress balls made out of flour and rice; and baked goods, to name a few.

Students made signs, set a budget and sold their product during Kearney's **Downtown Night Market**. Downtown Night Market is an event held the 1st and 3rd Thursday of the month from May-October. It brings arts and crafts vendors, food trucks, and retail popup shops, to celebrate and network with entrepreneurs and community members in a fun and engaging atmosphere.

Senator John Lowe also came out to talk to the kids about leadership and community service and observed them making their product. Being an entrepreneur himself, Senator Lowe gave some good tips for them to sell their ideas.



CyberCamp brought over 60 students to the University of Nebraska at Kearney campus in June. Grades 7-12 participated in this 4-day camp in the Otto Olsen Building. Students were introduced to computer architecture and embedded systems hardware, networking concepts, computer programming and engineering. They learned the basics of technology and also were tasked with activities to gain hands-on experience. Students could take advantage of the college experience by staying in the dorms and learning more about campus life. The new Cyber Security program at UNK will begin this fall (August 2018).

Omaha

Area Director—John Fonda

AREA DIRECTOR HIGHLIGHTS

M3E Trailer—BUFFET MIDDLE SCHOOL, OMAHA



Approximately two years ago the Omaha Dream It. Do It. manufacturing coalition received a grant to purchase a mobile manufacturing trailer to inspire OPS middle school students to explore careers in manufacturing.

In September, the M3E trailer made its way to Buffet Middle School where students could go through the trailer and experience a Welding Simulator, FANUC Robot, 3D Printer and Virtual Reality Goggles.

Prior to experiencing the trailer, the Dream It. Do It. team sends educators manufacturing lesson plans, power points and a survey that should be shown to students prior to the visit.

SKILLS PAY the bills

Nebraska State Fair

The NAMC, Dream It. Do It. once again partnered with the Nebraska 4-H Extension at the Nebraska State Fair as part of “STEMing Into the Future” in the Nebraska Building.

The booths in the area focused on providing kids with hands on activities, giving them an introduction into STEM.

AROUND 500 KIDS STOPPED AT THE DREAM IT. DO IT. BOOTH where they participated in an activity called the “Rocket Factory”. They designed, assembled and tested their product—a small rocket powered by air. The kids had a lot of fun creating their rockets and when they made them fly, it was so exciting.

The Dream It. Do It. booth also had some safety glasses and hard hats the kids could try on, google goggles that they could look into to see the inner workings at Caterpillar, handouts for parents and teachers, and more.

See more information about the STEMing Into The Future Booths on the following page.

WELCOME TO THE ROCKET FACTORY!

Step 1

Design:
Color the Rocket



Step 2

Production
(assembly 1):
Tape Small Straw to Back of Rocket



Step 3

Production
(assembly 2):
Insert Large Straw into Small Straw



Step 4

Test Product



Summary Report



BY: NEBRASKA 4-H / EXTENSION

Nebraska 4-H/Extension partnerd with the Nebraska State Fair for an exhibit in the Nebraska Building called "S.T.E.M.-ing into the Future".

STEM Careers Issue Team: Encourage and prepare youth for careers in STEM

Goal: Engage State Fair guests with STEM activities which are hands-on and associated with careers in STEM

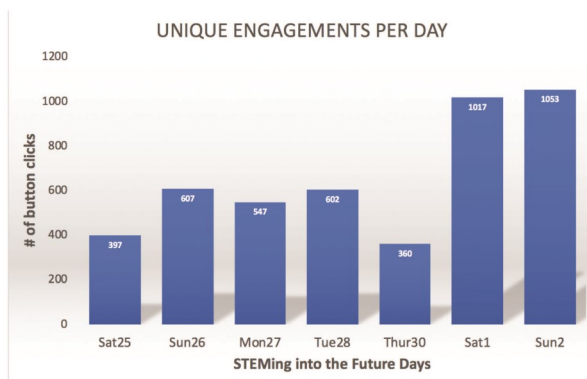


6 University, Industry, and Education partners

7 Days of Fair

18 Different Hands-on Activities

4,583 Unique Interactions



Activity	Days	# of Unique Engagements
Virtual Reality	2	263
Tinker Elec.	3	291
Tinker Lego	2	409
Tinker Marble	2	94
AR Sandbox	2	1329
Straw Rockets	5	499
Hydrology	4	489
Makerspace*	1	768**
TMC*	2	600

*combined activity numbers

**includes a hand count (non-counter)

Unique Interactions: Unique interactions are personal interactions between activity and/or activity provider and guest. These interactions are being tracked in order to provide hard-count data which may be used to provide insight into decisions for future engagements at the Nebraska State Fair.

2018 Evaluation method: Each STEMing vendor/activity will have an Electronic counter which will keep a count and time-stamp for each click. STEMing vendors/activities will be encouraged to press the button (or have participant press button) upon the completion of a hands-on activity or engaging with guests. This year, the focus of data collection is on the number of 'unique interactions.' In the future, a focus on quality and/or impact of engagements will be assessed.

Nebraska Students Attend SkillsUSA National Conference and Skills Competition

BY: GREG STAHR

Two hundred and fifty five (255) students and advisors from Nebraska attended the 54th National Leadership and Skills Conference, sponsored by SkillsUSA, June 25 - 29 in Louisville, KY.

Nebraska students came home with 17 medallions and 91 Skill Point Certificates, which represent the contestants completing the required list of skill competencies in their respective competition. Nebraska had students in 42 competitions place in the Top 10.

NEBRASKA NATIONAL AWARD WINNERS TAKING HOME TOP PRIZES:



Collision Repair Technology
College/Technical Division
Kyle Ray, Metropolitan Community College, Omaha

Internetworking
College/Technical Division
Jesse Wiseman, Northeast Community College, Norfolk

Prepared Speech
High School Division
Miranda Hornung, Raymond Central High School, Raymond

Cabinetmaking - High School Division
Tyler McLaughlin, Yutan High School

Job Skill Demonstration OPEN
Middle School Division
Madison Melcher, Unified School District #1 – Clearwater/Orchard

Motorcycle Service Technology
High School Division
Hayden Sedlak, Plattsmouth High School

Additive Manufacturing – College/ Technical Division (picture below)
Alexander Kemnitz & Adolfo Vargas, Central Community College, Hastings

Firefighting Technology – College/ Technical Division—Josh Forrest, Southeast Community College, Lincoln

Broadcast News Production – College/ Technical Division—Kaylee Dankert, Henry Hagge, Dustin Stortzum, Dustin Van Zee, Northeast Community College

2018 NATIONAL SKILLSUSA LEADERSHIP AND SKILLS CONFERENCE

AT A GLANCE

102

Occupational and Leadership
Skills Competitions

255

Nebraska Students & Advisors

6,500

Total high school, college and
technical students

52

States and Territories

Industrial Motor Control
College/Technical Division
Gene Kumm, Northeast Community College, Norfolk

Robotics: Urban Search & Rescue
College/Technical Division
Calvin Craig & Cody Greenwood, Northeast Community College, Norfolk

Welding Technology
College/Technical Division
Leah Reichwaldt, Metropolitan Community College, Omaha



SILVER MEDALISTS



GOLD MEDALISTS



BRONZE MEDALISTS

Norfolk

Area Director—Katie Schaefers



BY: JAMES CURRY

NORTHEAST DRAFTING STUDENT SETS ALL-TIME RECORD IN BRIDGE BUILDING COMPETITION

Austin Berg, second year drafting student at Northeast Community College, Norfolk was one of 12 students to take part in this year's bridge building competition. Austin's 3.78-pound bridge of popsicle sticks, glue and fish line held 385.06 times its weight; balancing 1,456 pounds of free weights and sections of railroad track before half of the weight fell off and ended the competition.

Michael Holcomb and Lynnette Frey, Northeast's CAD/drafting instructors on the Norfolk campus, organize the annual competition. Holcomb said the students create blueprints for their bridges and then construct them.

While Berg's bridge did not literally shatter into pieces, it crushed the previous record in the competition, now in its 11th year. "A lot of hard work goes into actually making a structure four-foot long and nine-inches wide out of popsicle sticks," Austin said. "It's really about the drawings ... having them actually drawing it out and then build what they're drawing to. This is a lot harder than it looks."



Northeast Community College drafting student Austin Berg (right) watches as weight begins to fall from his popsicle stick-built bridge.



NORTHEAST CC AG STUDENTS BUILD 4 ROW PLANTER

(Picture) Bolt by bolt, piece by piece, a four-row planter gradually took shape over about five weeks as part of the spring semester Precision Agriculture Hardware class at Northeast Community College in Norfolk. In picture, some students study directions on how to mount a single-row modular unit, while other students construct a four-row planter during the lab portion of their Precision Agriculture Hardware class. (Courtesy Northeast Community College)

NORTHEAST ELECTRICAL STUDENTS SHED LIGHT ON NORFOLK SENIOR CITIZENS CENTER PROJECT

While upgrading the lighting system at the Norfolk Senior Center to LED lights, the center asked Northeast Community College for help... and they said YES!

"This worked out perfectly with our energy classes so we were happy to come down, change the lamps out, rewire the fixtures and allow the center to have a better quality of light at less cost," said Dan Frohberg, Northeast, electrical construction and control instructor. "It's a good experience for the students as to what they need to bring to a job site, what they need to have on hand with them and make sure everything is available, as well as customer service," Frohberg said.



(Picture) Northeast Community College electrical construction and control students place new LED lights at the Norfolk Senior Citizens Center. (Courtesy Northeast Community College)