



Delta High School Newsletter

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Delta High School is a public-private partnership school serving students from the Kennewick, Pasco, and Richland School Districts. Delta is a unique Science, Technology, Engineering, and Mathematics-focused high school.

Brought to you by parents from the Kennewick, Pasco, and Richland School Districts

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Important Upcoming Dates

No School	5/24
Memorial Day (No school)	5/27
10th Grade Biology EOC	5/28-30
Graduation in districts	4/20
SAT exam at Delta	6/1
9th -10th Grade Math EOC	6/4-6/6
11th-12th Grade Math EOC makeup	6/4-6/6
Graduation Class of 2013-TC Convention Center	6/7 at 7pm
Last Day of School. End of school celebration at Howard Amon	6/7

Seniors ONLY! Graduation party tickets have been purchased and prizes have been procured. Please come and enjoy that party after grad reception.

Principal's Corner

Dear Delta Students and Families,

I am so excited to be your new principal! It is a great honor to continue the work that I have been a part of for the past four years. At Delta, we are a family, and I look forward to continuing to work with you to support you in reaching your educational goals. To our new Class of 2017, welcome to a great adventure!

I am excited to bring Delta into its next phase of development. We will continue to push forward with STEM and humanities integration, develop more opportunities to work with professionals in the community, and continue our outreach to the broader K-12 public education sector. This is an oppor-

tunity for us to work together to improve not only ourselves, but how school gets done in the U.S. We will continue to be on the forefront of standards-based curriculum, incorporating project-based learning and design principles with other types of meaningful assessment. Our work is far from over – in fact, it is really just beginning!

I have always been an avid learner, and I look forward to learning with you over the next year. I believe education is the path to opening doors of opportunity. My own educational background includes a Masters in Education, and I am currently working toward a doctoral degree in Educational Leadership at Washington State University, Tri-Cities. (Go Cougs!) In my free time, I love

by Jenny Rodriguez

to read, cook, scrapbook, and spend time with my husband, Tony, and our two daughters, Sabrina and Isabella.

It is important to me that each of you know that I am here to serve you. Leadership is not about being in charge; it's about helping others. Please feel free to contact me anytime with questions, concerns, or feedback. I look forward to working with you as we all continue to "Think Differently" about education!

Sincerely,

Jenny Rodriguez
Incoming Principal

News for next school year

Freshmen Orientation will happen the first day of school, Wednesday, August 28th. We will start orientation at 8:30 a.m.; this is a required school day and will be difficult to make-up.

Sophomores, Juniors, and Seniors will start on the second day of school, Thursday, August 29th at the regular time.

Also for new freshmen, please remember to turn in your pre-assessment packet to the main office by June 7th.

If you will have a difficult time making this deadline, please contact Ms. Estes or Mrs. Pack as soon as possible to make arrangements. Have a wonderful summer!

New calendar

The Richland School District 2013-14 calendar has been approved and is available on their website, www.rsd.edu.

We will mail home our Delta 13-14 calendar in August.

Parent's Forum (Seriously, have you joined the Facebook group yet?)

The P.O.D.S. (Parents of Delta Students) Facebook group is a convenient way for parents to get connected. This is a private group and open only to *parents* of Delta High School students. As the moderator, Tiffany Quintana (mother of Michael Quintana, 11th grade) will update the page with information as she receives it, but all parent members are free to post

information and questions. If you're interested in joining this group, please do the following:

- 1) From the email account associated with your facebook profile, send a message to Tiffany at deltahighmom@gmail.com. Include your name and the name of your student(s).

- 2) Accept Tiffany's friend request and she will add you to the Parents of Delta Students group.

In order to be informed about your student's assignments and class activities, please join the Edmodo learning community online. Contact Margarita Alaman in the front office at 544-8355 for instructions.

Sophomores

Do you want to make your junior year easier? You can finish your community service hours and do job shadows over the summer! To graduate, you need 15 hours of community service recorded on the log paper, which can be found outside Mrs. Muir's office. You need to make sure each entry is signed by the supervisor – not a parent!

Any 11th grade Advisor can approve your job shadow preparation. If you want to do your job shadows over the summer, be sure to contact Mrs. Adams, Mrs. Allen, Mrs. Burke or Mrs. Hoffner before school is out.

3D printer update

Yes, we have two new 3D printers and kids have been using it to print out everything from rotors to class rings!

The first was paid for by Tech Club as result of refurbishing old computers a couple years ago. Kids are paying between \$2 to \$3 per part for printing their 3D designs.

The Tech Club 3D printer was such a hit, that the Washington STEM Foundation bought a second printer for us and now installed in Mr. See's room. Very exciting around here! *By Jim Hendricks*

Upper division science classes speaking the same language

Upper division science classes have been BUSY! We are finalizing our experiences in Bioethics of Biotechnology by altering the genes of bacteria to make it GLOW!

This is the culmination of learning about techniques including DNA isolation, protein analysis through spectrophotometry, restriction digests (cutting up DNA with enzymes), polymerase chain reaction (PCR – a DNA "photocopier"), gel electrophoresis, and sterile technique. Students have improved their laboratory skills, ranging from graphing using semi-log paper for analysis

National History Day – Delta's Best Showing Ever!

On Saturday, May 4, competition at Bellevue College, after qualifying at regional competition in February.

Students entered projects in all categories related to this year's contest theme, Turning Points in History: People, Ideas, and Events. Projects addressed a variety of topics, from the Titanic disaster to the U.S. Embargo of Cuba.

Student projects included papers, exhibits, documentaries, performances, and websites. Students revised their work after regional competition, completing additional research, building new displays, and editing all written material. Many spent countless

hours after school and on the weekends preparing for the event.

Delta brought home the following awards at this year's state competition:

- 3rd Place, Individual Paper – Loni Shugars (Pasco)
- 4th Place, Group Documentary – Annabeth Guzman (Pasco) and Mallory Kester (Kennewick)
- 4th Place, Group Documentary – Annabeth Guzman (Pasco) and Mallory Kester (Kennewick)
- 5th Place, Group (Kennewick), Jonathan Herring (Kennewick), Michael Warner (Kennewick)
- 5th Place, Individual Exhibit – Talya Jackson (Pasco)

- 6th Place, Group Exhibit – Aaron Serrano (Pasco) and Ulises Soriano (Pasco)
- Chinese / Chinese-American History Award – Zongchen Yang (Kennewick)
- Maritime History Award – Annabeth Guzman (Pasco) and Mallory Kester
- Jim Kiefert Administrator of the Year Award – Mrs. Deidre Holmberg

We can't wait to introduce NHD to the new class of 2017 and compete again next year! For more information or to get involved in next year's National History Day contest, contact Jenny Rodriguez at jenny.rodriguez@thedeltahighschool.com.

Be ready for End of Course exams

Students who are taking Integrated Math 1 or Integrated Math 2 will be taking the End of Course (EOC) exam during the last week of school. Passing these tests is a graduation requirement. Now would be a great time to start talking to your student about their preparation for the test. Since the test will cover what they have been learning for the whole year, teachers are having students review things they haven't seen in a while. Here are some things parents can do to help:

- 1) Locate the math books from Trimesters 1 and 2.
- 2) Warning: This may involve cleaning and organizing. An extra, added benefit
- 2) Open any book to a random page and ask your student to explain what that page is about. The answer should make sense to you. If it doesn't, that's your clue that your student needs to spend some time looking over that section. After review, ask for an explanation again.
- 3) Emphasize the importance of

working to be prepared. Many students think that success comes from some magical source. They have not yet made the connection between effort and success.

4) On the nights before the test (Monday, Tuesday and Wednesday), make sure students get a good night's sleep.

5) On the days of the test, make sure students get a good breakfast. That means more protein than sugar.

Thank you for your support.
The Math Department

of restriction bands to using a pipet properly.

Several books selections involving biotechnology themes were offered for reading and I was impressed by the students' ability to express their thoughts during Literature Circles. We have explored the hot topics of genetic testing, gene manipulation, and genetically modified foods and prepared persuasive materials based on scientific information. These students are excellent at defending their arguments.

Advanced Physics (angular mo-

tion) is about to go bowling. What fun! Actually, while it should be fun to learn, we are also going so that student can gather real-world data to use on their final exam. They will be assessed on their ability to gather appropriate data and use it to complete calculations describing a rotational system as well as a projectile system. They will use sixteen of the equations (plus variations) they have experienced this trimester.

Ask them how many times they've heard me say, "Math is the language of science." We tried "flipping" this class, a first

for me, which means having lectures at home in the form of videos and more time during class for lab activities and individual assistance.

I am looking forward to hearing from the students about what they'd keep and change about that format. Feel free to let me know how it went if you have a student in the class. Feedback is always appreciated.

Thank you for an amazing spring.

Deborah Burke

Where are the seniors going next?by *Claudia Mena*

Jared	Anderson	Columbia Basin College
Jadon	Antoine	Columbia Basin College
Cecily	Bader	University of Utah
Yuliya	Baranovskaya	Washington State University-TC
Justin	Bazinet	Columbia Basin College, Cybersecurity
Devin	Bernhardson	Columbia Basin College
Shelby	Booth Stubbs	Columbia Basin College
Israel	Cantu	Columbia Basin College
Isaac	Chassin	Loyola University of Chicago
Victor	Cohetero	Columbia Basin College
Maia	Dehler	Washington State University-Pullman
Jasmin	Garcia	Washington State University-TC
Max	Garcia	Columbia Basin College
Sydney	Hall	Columbia Basin College
Chad	Hanus	Columbia Basin College
Garrett	Harvey	Washington State University-TC
Peter	Herr	Central Washington University
Haley	Johnson	Washington State University-TC
Josh	Johnson	Navy
Zachary	Kaiser	Columbia Basin College
Aleksandr	Khripchenko	Columbia Basin College
Brady	Lawson	Columbia Basin College
Austin	Leclair	Columbia Basin College
Xitlaly	Lujano	Columbia Basin College
Stevie Jean	Luke	Washington State University-TC
Kimberly	MacRoberts	Walla Walla Community College
Mikayla	Martin	University of North Carolina-Charlotte
Ilse	Martinez	Columbia Basin College
Charles Walker	Matthin	Northwest Linemen College
Genesis	Mejia	Columbia Basin College
Claudia	Mena	University of Washington
Andrea	Norris	Washington State University-TC
Jovanny	Ochoa	Columbia Basin College
Ignacio	Ortiz Barragan	Marine Corps
Jairo	Ortiz	Columbia Basin College
Emily	Pease	Columbia Basin College
Jeevan	Philip	University of Washington
Bailey	Pipes	Eastern Oregon University
Tatyana	Ponomareva	Columbia Basin College
Daniel	Ramsey	LDS Mission
Janhviben	Rana	Central Washington University
Krystal	Reitan	Washington State University-TC
Nickalas	Rexus	Marine Corps
Robert	Richardson	Columbia Basin College
Juan	Rodriguez	Eastern Washington University
Erik	Ruehl	Flinders University of South Australia
Zachary	Smith	Washington State University-Pullman
Levi	Steel	Marine Corps
Seth	TeGrotenhuis	Whitworth University
Tyler	Williams	University of Washington
Tayler	Wonders	Columbia Basin College
Yevgeniy	Zolotnyuk	Columbia Basin College

"The important thing is to not stop questioning."**- Albert Einstein****Freshmen Visit LIGO**

On April 19 our freshmen went to the Gravitational-wave Observatory on the Hanford site. The students learned about LIGO's mission — to detect and measure gravitational waves that were first predicted by Einstein's Theory of Relativity. Educational Director, Dale Ingram, hosted the field trip and provided many hands-on activities for the students including, learning about waves using the "Giant Slinky" or the "Vibrating String" and also determining the estimated distances to the stars by counting their steps outside from the starting point to six other stars in the Milky Way Galaxy.

Other activities included using a Little Michelson interferometer, observing different light sources through a spectroscope, and testing the effect of mass on the rate of a pendulum swing. The second half of the field trip included a tour of the research facilities at LIGO where students got to see the scientists at work.

*By Ann Autrey***Delta Students Win State Science Fair Awards!**

Jack Yang and Gavin Iverson both entered the Washington Science Fair held in Bremerton, April 6, 2013.

Gavin Iverson, a freshman, won first place in the Senior Division for Chemistry and also received the Wolfram Mathematica Award. He was given a one year license for the Mathematica program. His science fair project involved studying the effects of sugar and salt on the freezing point of water.

Jack Yang entered his science project entitled "Anti-Gravity Water" He received the Outstanding Statistical Thinking Award for his entry.

By MaryBeth Tilson

**"You have brains in your head.
You have feet in your shoes. You
can steer yourself in any direction
you choose. You're on your own.
And you know what you know.
You are the guy who'll decide
where to go."**

Dr. Seuss, On the Places You'll Go

STEMCon shares best ideas

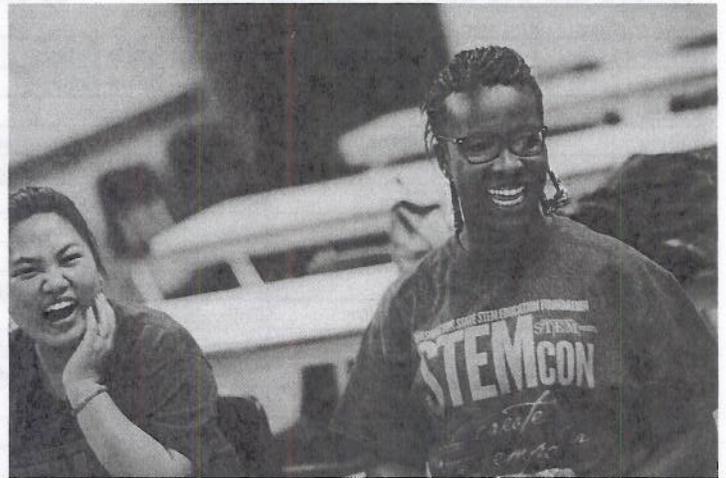
by Suzy Merz

In its fourth year, STEMCon has grown to be one of the leading STEM community events in the state. STEMCon provides a unique opportunity for community members to work with local students in hands-on projects, sparking the imagination of a new generation and showcasing the multiple possibilities available to them in Science, Technology, Engineering and Mathematics (STEM). It creates a fun and interactive learning opportunity for students to explore what careers in these disciplines might involve by working side-by-side with local professionals. "STEMCon was a lot of fun, from Mrs. Rowley I learned a lot about DNA." Freshman Samantha Hudson explained, "My favorite part was collecting my own DNA and charting it. I really want to go again next year, it was a great day."

Facilitated by the Washington State STEM Education Foundation, in partnership with PNNL and hosted at Columbia Basin College, this year's event was a great success. Delta High School freshmen and sopho-

res attended with other local students totally over 500 middle and high school students that participated, with local professionals offering over 65 different interactive STEM education sessions, hosted by more than 140 facilitators and mentors. "As a freshman, I experienced a lot of new things at STEMCon especially about industrial decay, the lunch was a lot of fun and I got a great shirt that I still wear," stated Brandon Lange, Delta High School freshmen.

As part of STEMCon, Delta High School Juniors had the opportunity to tour local STEM businesses and interact with STEM professionals. Students chose to attend tours based on their areas of interests. The tours were centered around, civics, manufacturing and product development, visual analytics and computer science. Junior, Mallory Kester, had the opportunity to go on the Benton County Tour where they visited the with the sheriff's office, the coroner and district court. "Since I am interested in



the medical field, I figured this would be an excellent opportunity to explore my interests. It was a great learning experience," stated Mallory Kester.

Collaboration is the cornerstone of STEM education. Access to current industry trends and tools allow educators to create an innovative curriculum, thus keeping our students on the cutting-edge of real-world advancements and technologies. Thirty teachers from across the

Mid-Columbia took part in professional development workshops, facilitated by Delta High School and Washington State University Tri-Cities educators. These engaging sessions instructed educators on methods of STEM integration, showcased current technologies and highlighted ways to incorporate STEM into every classroom.

Each year STEMCon grows and allows us to give local students, educators and community members to work together and in-

Mock interviews give real experience

By Haley Johnson STEM Foundation Intern, DHS Senior

In this competitive world, it is important to make your first impression count. On February 20 High School Juniors learned just that while participating in Mock Interviews at the CBC Health Science Center in Richland.

"I feel the mock interviews were very helpful in preparing us for the future. Now we have the experience of how it will be when we go to the interview that could be the job for the rest of our lives," stated Kyle Bengen, Junior at Delta High School.

With over 45 community volunteers participating, the Junior Class had the opportunity to be interviewed multiple times and received immediate feedback on their interview, resume and cover letter.

"The interviews provide students

the opportunity to prepare for joining the workforce. Students that go through this program will develop improved confidence and communication skills. These specific attributes will be beneficial in creating a positive job interview experience. I appreciate the Delta High School and STEM Foundation staff for allowing my peers and me to be a part of this rewarding practice," Enif Michael, Hapo Branch Manager, remarked.

Students prepared for these interviews by creating resumes, cover letters and earlier in the year they worked with community partners learning about appropriate dress, their personal "60 second commercial", how to answer standard interview questions, also how to make not only a positive impression, but also a lasting impression, through appropriate body lan-

guage and confident speech.

"The mock interviews were a wonderful experience to gain first-hand knowledge of how interviews for colleges and jobs can be like; without the threatening aspect of being rejected," said Loni Shugars, a Delta High School Junior. "Each interviewer has their own style of completing an interview so the mock interviews expose you to the different types of interviewers while gaining those valuable interviewing skills that can't be acquired otherwise."

Cielo Garcia, also a Delta Junior commented, "it was a great learning experience for all of us, some of us left our interviews with job offers, others got a good idea of what that interview experience was like, and really that was the purpose of it all. To gain experi-

ence and receive feedback, so when the time comes, we can really be prepared for that formal interview and get the job we've dreamed about."

For taking the time to help our students, we'd like to thank the following people and organizations; Worksource, Lockheed Martin, Mission Support Alliance, Energy Solutions, Wal-Mart, RJ Lee, Basin Disposal, Free Stone Environmental, City of Kennewick, Three Rivers Convention Center, Richland Park and Recreation, URS, Vivid Learning, Imageworks, Meier Architecture and Engineering, Fred Meyer, City of Richland, STEM Foundation, HAPO, Dade Moeller, Gesa, PNNL, WSU Tri-Cities, Pasco School District and several community members.