Educators’ Conference
Gateway Hotel & Conference Center at Iowa State University ● Ames, Iowa
Monday, September 29, 2014

**Please note that there is limited capacity in some breakout sessions. To ensure you get a seat, please arrive at the session in a timely manner. Thank you for your attention and attendance.**

Participant learning objectives for the conference sessions. By the end of the conference, participants will...

- Transfer their learning of each concept to a real world situation
- Understand the differences between the PLTW programs (Launch, Gateway, Engineering, Biomedical, Computer Science)
- Understand the role of partnerships and donor relations in the success of their PLTW program
- Know how to apply researched strategies in communicating about STEM with students, parents, and other professionals (verbal, written)
- Be able to utilize the Learning Management System (LMS)
- Understand requirements and benefits to becoming a Certified/Re-certified School
- Be able to understand best practices to implementing and sustaining PLTW
- Have a network of peers to further engage beyond the conference experience

8:00-8:30a  **Registration – Gallery Lobby**
Registration with continental breakfast and vendor booths in Gallery Lobby

8:30-9:15a  **Conference Opening and Morning Welcome – Prairie Ballroom**
Camille Sloan Schroeder, Iowa PLTW Affiliate Director, ISU Engineering Community Outreach

9:15-9:30a  **Networking Break – Gallery Lobby**
We heard you enjoy seeing each other...time dedicated for ‘so nice to see you’ and ‘what have you been up to’ – get in a little connecting before a whole lot of learning (and even more connecting).

9:30-10:15a  **Breakout Session I**

**Session I-A: Learn About Launch - Harvest**
*Jen Williams, PLTW Launch Teacher, Carlisle Elementary School*
*Kim Glenn, Director of School Engagement, PLTW*
Engaging young students builds confidence, grows interest, and puts them on course for great opportunities in K-12 and beyond. Come learn more about this new program for K-5.

**Session I-B: Gateway Tricks of the Trade - South Prairie**
*Mark Matson, Cedar Rapids and Susan Lyons, Pella — Master Teachers*
Learn about Web 2.0 tools used in the Gateway curriculum. Participants will be able to identify various teaching strategies for DM and AR with this session.
Session I-C: Grants and Corporate Relations Best Practices - Central Prairie  
*Pat Barnes, Program Director, John Deere Inspire  
*Adriana D’Onofrio, Sr. Community Relations Specialist, Rockwell Collins  
Want to know how to go the extra distance for your school, students, and program? Come learn from corporate partners on what makes them excited to partner with schools and build long-term relationships and funding opportunities.

Session I-D: Autodesk Ins and Outs –Inventor Survival - Meadow  
*Jason Franzenburg —Master Teacher, Davenport  
Learn how to manage projects and teach Inventor Basics. You will have time to ask specific questions about issues you may be having. Good for anyone teaching with Inventor.

10:15-10:30a Networking Break – Gallery Lobby

10:30-11:15a Breakout Session II

Session II-A: PLTW LMS 101 – Rosters, Requirements, Resources – Oh My!* - South Prairie  
*Susan Lyons, Master Teacher, Pella  
A little mid-morning STEMistry...learn about the Learning Management System (LMS) and tools teachers can use.  
*please bring a laptop or other portable device to this session if you want hands-on

Session II-B: Knowing Your Audience – Millennials and STEM - Central Prairie  
*Camille Sloan Schroeder—PLTW Iowa Affiliate Director, ISU Engineering Community Outreach  
How do you speak STEM? Find out why it is so important to engage a young child in STEM activity, the importance of creating a pipeline through the PLTW programs and how you can make an impact that matters to those you hope to inspire and educate.

Session II-C: PLTW Computer Science Decoded - Meadow  
*Doyle Massey, Master Teacher, Sioux City  
PLTW’s new computer science and software engineering course, CSE, is now available. Get details on what you need to know about the new CS pathway and how to help your students be STEM-literate for the 2.8 million STEM job openings in 2018.

Session II-D: BMS Un-Conference Evolving Agenda Items - Harvest  
*Kim Glenn, Director of School Engagement, PLTW  
Discuss topics important to you at the Biomedical Sciences evolving session where participants will set the topics discussed. Everything from what it is to where it is going.

11:15-11:40a Networking Break – Gallery Lobby

11:40-12:30p Lunch – Prairie Ballroom

*Special Guest: William White, Midwest Regional Vice President, PLTW  
William joined PLTW in his current role in 2012 and holds a bachelor’s of science degree in metallurgical engineering from The Ohio State University where he played four-years of Division I football, eventually going on to enjoy a 11-year career in the NFL with the Detroit Lions, Kansas City Chiefs and Atlanta Falcons.

12:45-1:30p Breakout Session III

Session III-A: Program Quality: What it means for PLTW - Central Prairie  
*Camille Sloan Schroeder—PLTW Iowa Affiliate Director, ISU Engineering Community Outreach  
Best practices for any PLTW program: Discussion on sustainability, how-to’s on certification throughout the programs, and where to find resources to share with your PLTW advocates.
Session III-B:  PLTW LMS 101 – Play it Again* - Meadow  
Susan Lyons, Master Teacher, Pella  
In case you missed the morning session, come learn about the Learning Management System (LMS) and tools teachers can use.  
*please bring a laptop or other portable device to this session if you want hands-on

Session III-C:  PLTW Implementation and Sustainability – What’s New For You - Harvest  
William White, Midwest Regional Vice President, PLTW  
News just for you -- what’s going on at PLTW with efforts to engage with PLTW alumni, the Innovation Portal, as well as enhance and expand opportunities for you and your students.

Session III-D:  Campus Tours, Space is limited - sign up required – Meet by Conference Registration Booth  
Bus leaves by 12:45 p.m.  * Note that the tours will bring you back for Session V, not Session IV.  
Get me a ticket on an airplane...well, it’s a bus...but this is one tour bus you don’t want to miss!  
Let’s hit the road for some great campus sites and learn more about what to expect on today’s college campus. Two tours available –choose one/pre-signup required:  
• College of Engineering  
• College of Veterinary Medicine

1:45-2:30p  Breakout Session IV

Session IV-A:  Grants and Corporate Relations Best Practices - Central Prairie  
Pat Barnes, Program Director, John Deere Inspire  
Adriana D’Onofrio, Sr. Community Relations Specialist, Rockwell Collins  
Want to know how to go the extra distance for your school, students, and program?  Come learn from corporate partners on what makes them excited to partner with schools and build long-term relationships and funding opportunities.

Session IV-B:  Success Through PLTW – College Student Discussion - South Prairie  
Special presenters include:  
• Nicole Fannin, Math Plus Actuarial Science, Iowa State University  
• Sara Dohrmann, Industrial Engineering/Engineering Sales, Iowa State University  
Hear what PLTW Alumni say about having PLTW before college and what they wish they had been taught to better prepare them for their college experiences. This session will have a portion of time for questions from the participants moderated by David Rethwisch, UI PLTW Affiliate Director.

Session IV-C:  Un-conference – Evolving Agenda Session - Meadow  
Raise your voice and cast your vote for what matters most for discussion in this session. Look for evolving agenda stations throughout the conference site to network, create, and innovate the day.

Session IV-D:  Campus Tours continue

2:30-2:45p  Chat and Chew: Networking Break - Gallery Lobby  
The afternoon pick-me-up theatre treat style. Think of it as “When Sweet Met Salty” and get a little hydration and snack re-boot for the finale.

Have you used a networking card today to get someone’s contact information or share an area of expertise or best practice that you have? If not, now would be a fantastic time to do so! They’re located on tables throughout the conference.
Breakout Session V

Session V-A:  Engineering Un-conference Evolving Session - South Prairie
Moderators: Jason Franzenburg and Doyle Massey, Master Teachers

Session V-B:  Gateway Un-conference Evolving Session - Central Prairie
Moderator: Mark Matson, Master Teacher

You asked for it! Let’s un-conference and hear from each other on what works and ways we can share best practice. Where do we go from here...how to get there...and all the other questions you did not get answered today, but need to know in order to feel like singing to the radio on the way home. Let’s get you ‘on the road again’ with some sharing and exploration.

Session V-C:  Research Experiences for Teachers: A New Spin on Professional Learning - Harvest
Adah Leshem, Pre-College Program Director, CBIRC Iowa State University
Are you looking for ways to broaden your understanding of engineering, design, scientific research? The Research Experiences for Teachers (RET) program is a summer, 7-week, paid opportunity that places PLTW teachers with on-campus engineering research groups.

Session V-D:  Iowa PLTW Grants and Scale Up Opportunities for 2015 - Meadow
Pat Barnes, Program Director, John Deere Inspire
Kim Glenn, Director of School Engagement, PLTW
Come hear more about the Iowa Governor’s STEM Initiative Scale Up Grants that may be possible for your school, as well as other competitive industry-sponsored grants for which your district may be eligible—always great to hear about grant opportunities.

Conference Closing and Completion Awards - Prairie Ballroom
Come receive our thanks for your learning throughout the day and possibly go home with more than you bargained for...in a good way, as in GIVEAWAYS! And, this is where you receive that lovely certificate you can hang on your wall to show everyone you are awesome...

Thank you to our presenters and participant contributors for their time and talents.

Your advocacy of STEM education for students and other professionals is powerful. The words you say and the actions you condone define the piece to the STEM puzzle that you, and only you, uniquely fill.

Iowa State University College of Engineering would like to thank each and every one of you for attending today’s conference. We would also like to thank you and your school for your strong commitment to PLTW and your leadership in inspiring America’s future engineers and STEMists.

We look forward to receiving any comments/suggestions that may help us to improve future PLTW Conferences.

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Presenter Contact Information

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Cut here and post this in an accessible spot for future reference.

PLTW School Support

(877) 335-7589
schoolsupport@pltw.org

PLTW Technical Support

technicalsupport@pltw.org
Transfer Course Materials in the LMS by 1-15-15:
All PLTW trained teachers gained access to the 2014-15 curricula on May 1 through the PLTW Learning Management System (LMS). Teachers should begin transferring any content they wish to carry over from their 2013-14 course shells into their 2014-15 course shells. Any content that is not transferred by January 15, 2015, will be lost. All student content, data, and information was deleted from the 2013-14 course shells in the PLTW LMS on July 15, 2014. Teachers no longer have access to 2013-14 student data. Please contact the PLTW School Support Team for assistance.

Rostering is Required:
Rostering for the 2014-15 school year is open! All PLTW Launch, PLTW Gateway, PLTW Engineering, PLTW Computer Science, and PLTW Biomedical Science students need to be rostered by the PLTW District Administrator, School Administrator, or Principal. Once students are rostered, teachers can enroll them into the PLTW Learning Management System (LMS). Rostering is required for PLTW Engineering, Computer Science, and Biomedical Science students to gain access to the End of Course (EoC) Assessments. The updated rostering template, as well as detailed instructions, is available under the Help section of the myPLTW website. Contact the School Support Team with questions.

Registration is open for PLTW Computer Science (CS) and PLTW Launch:
Districts and schools can sign up for programs on the PLTW “Register Now” webpage. Special note: The first course in PLTW CS, Computer Science and Software Engineering (CSE), could also be offered as a specialization course for PLTW Engineering schools. Launch is an engaging, hands-on STEM program for K-5 that is now available beginning in the 2014-15 school year. For additional program and registration information, please visit the PLTW Launch webpage on PLTW.org.

Want to further network with other PLTW Peers? The newly developed PLTW Professional Learning Community (PLC) is available to the PLTW network. It serves as a single location within the LMS for all PLTW teachers to build a supportive network of connecting, collaborating, and sharing expertise with colleagues around the country. By utilizing the PLTW PLCs, teachers can benefit from collective learning and application of knowledge and skills.

The Assessment PLC and all general LMS discussion topics in the course-specific PLCs have fully transitioned to the PLTW PLC. Additional assessment resources for the 2014-15 school year will be added to the "PLTW Assessment" module within the PLTW PLC as they become available. The course-specific PLCs will remain available for resources and discussions.

Check out the PLTW Ongoing Training (OT) Resources! In the LMS you will find ongoing training through videos, updates, and resources like Lynda.com with lots of topics available to you for free. Visit the site often for regular updates.

Sample End of Course Assessment Items now available. PLTW Engineering Courses AE, CIM, CEA, DE and POE and PLTW Biomedical Science HBS, MI, and PBS available now. IED available later this year. Tutorial is there to walk you through the quiz feature. More items will be released over time. It’s a great way to experience the types of questions found on the EoC exams!

More information about college credits for PLTW students? Check out the following websites: www.pltwiowa.org; www.pltw.org/our-network/college-and-university-partners; www.engineering.iastate.edu/prospective/resources/pltw-college-credits-at-isu. It is important for your high school students to connect with their college or university and inquire about equivalent/substitute course for their field of study. It differs by institution and major.

Iowa STEM Initiative and Scale Up information at www.iowastem.gov. Check out opportunities and data.

School Support is open later - weekdays 6a until 10p CST by phone (877) 335-7589 or send a quick email to schoolsupport@pltw.org or Technical Support at technicalsupport@pltw.org.