

TECHNOLOGY NEWS

College of Education Technology Implementation Area Newsletter Issue 2

Fall 2016

Product Updates and Developments • Did you Know? • How-To • Apps and Tools • Q&A

Welcome

Dear College of Education faculty and staff,

Welcome to our second issue of the COE Technology Newsletter. In this edition you will find interesting topics such as UTEP's campus wide Classroom of the Future initiative, swivel technology to record and video conference as well as a quick look into the UBI's interactive touch screen.

Jerry Urquiza –Technology Implementation Manager

“The real danger is not that computers will begin to think like men, but that men will begin to think like computers.”

-Sydney Harris

•Classroom of the future

An interview with Mike Pitcher and Dr. Oscar Perez from UTEP's Academic Technologies

What is The Classroom Of The Future?

The Classroom of the Future is an initiative that was first focused on addressing the gap in integrating new teaching technologies and replacing legacy equipment installed in UTEP classrooms. However, as the team within the UGLC-Learning Environments discussed such replacement, it made sense not just to replace equipment, but to really push the boundaries of what we could do within a teaching space to empower faculty in exploring new pedagogy styles and offer students a better learning experience. We see so many instructors wanting to be innovative but are many times limited by what they have in the classrooms. With that in mind, we embarked on a much bigger scope to create a learning space that not only brought new teaching methodologies and technologies into play, but also solved common frustrating problems of the current classroom technology designs as best we could. The design scope of the classroom initiative then took a much larger scope by incorporating input from faculty, students and staff via social media, face-to-face meetings, and several focus groups. Based on every participant's input, we turned their list of wants, needs, and have-to-haves into what is now the first pilot.

How did this idea/concept come out?

The concept of Classroom of The Future emerged from observing faculty teach and from meticulously trying to solve the different challenges that were presented to faculty and students when learning in a dated classroom.

Cont...

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- Bit Locker



Cont... Classroom of the Future

The UGLC LE staff started the conversation with faculty from the different colleges and began modifying the status quo on what an Audio-Visual (AV) system should be and how it could foster teaching and learning.

What is the difference between the current multimedia classrooms and the Classroom of the Future?

Pedagogically, you can use the AV equipment in a way that is more conducive to student learning by incorporating high definition video, using a brighter and clearer laser projector. Most importantly, the students can actively share their work using their mobile devices with ease using the Solstice Pod through the wireless network as one example.

What new technologies will these new classrooms include?

The Classroom of the Future includes the installation of a state-of-the-art laser projector that is brighter than any other projector ever used in a 25 to 50 student classroom at UTEP. Another device included in the design is a Solstice Pod. This device enables the easy sharing of content by the instructor and the students to the screen either one at the time or side-by-side to help students contrast the many different approaches to a challenge or individual results in a group setting. In addition, these classrooms include an HDMI input to be compatible with the new laptop video connection standard.

What are the benefits for faculty and students utilizing this new technology?

You get more freedom, mobility and ease-of-use. Students and faculty can now easily look at high definition video and images displayed by the projector. The projector is capable of competing with poorly illuminated rooms and by doing so, improving the student learning experience. The Solstice Pod can give students and faculty the ability to show media, files and images through their mobile devices and share them with the class; which opens new ways of collaborative work.

Is it true that the College of Education will be among the first colleges to have this new technology available for fall semester?

Yes! The first two pilot rooms being deployed are Education 312 and Education 405. The reasoning behind this is that the College of Education has always been in the forefront of exploring and adopting different teaching techniques and can provide valuable feedback to the rest of campus on how to improve the Classroom of the Future design. The College of Education also has a technology support structure that can work as an aid and a safety net for instructors that want to try these new technologies in the classroom.

Is there any training available for faculty who would want to use this new setting?

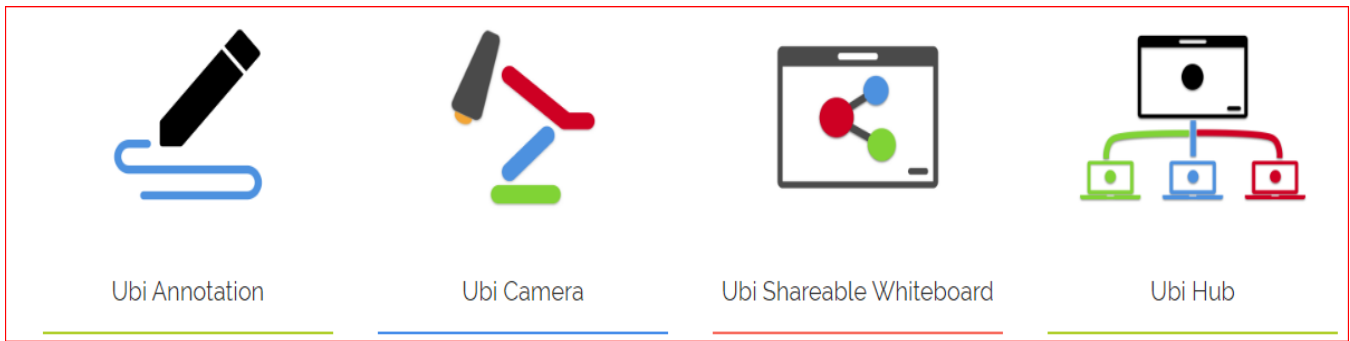
Yes. During the first week of class, the UGLC-Learning Environments team is personally meeting with each instructor teaching in these classrooms and providing a brief one-on-one training before class starts so they can begin their courses with confidence. The UGLC-LE staff has also been scheduling specific training with instructors per their requests and are available for further Classroom of the Future training for faculty that want to use the system.

How many Classrooms of the Future will the College of Education have?

The College of Education has the first two pilots outside of the original design space in the UGLC. In that effort, the College of Education is leading the way in implementation and feedback on the new designs. Longer term, other rooms within the College of Education are under consideration and discussion for the next phase of rooms to be deployed. The final goal of the COTF project is to touch at least 150+ spaces on campus in total.

Mike Pitcher is the Director for Academic Technologies and Dr. Oscar Perez is an Instructional Support Specialist for Academic Technologies.



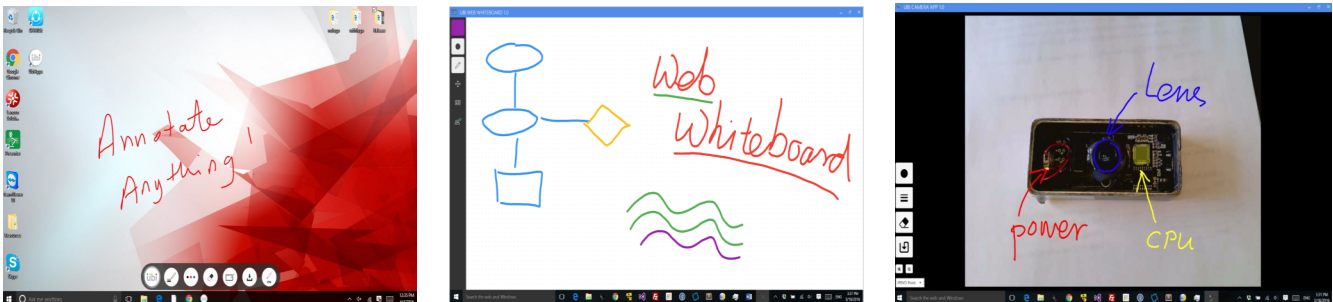


• What is **ubi**? Turn any whiteboard interactive

Ubi is a hardware + software solution that turns any surface into a touch screen. Interact with any app with the touch of a finger or the Ubi pen.

Annotate anything using Ubi. Ubi's annotation tool allows you to annotate any content, save it and share with your students. Annotate Google Earth, Wikipedia articles, pdfs or your desktop. **Interact with any document** camera and annotate on a big screen. Ubi works with any document camera. With a click of a button, you can display textbooks, experiments and 3D objects on a big screen, interact with and annotate over the image using Ubi's annotation tool. **Shareable Whiteboard**, with one click, you can share Ubi's web whiteboard with any student, on any device, anywhere in the world. You can then together learn, brainstorm and share. **Interaction** at your fingertips, with just one click, you can wirelessly project individual student's laptops to the Ubi interactive whiteboard and interact with the content. Or have students add to the content you have projected, right from their desks.

Ubi does not lock you into its own proprietary software, you can interact with any app on your Windows PC or with content on your favorite browser.



Annotate and save directly in Word, Power Point and Excel. Use Ubi with Google Classroom to make learning truly collaborative. Use your existing lesson plans and content with Ubi.

The College of Education will be furnishing several rooms with this technology for curriculum instruction. Room 403 will be ready for fall semester followed by two additional classrooms to be determined. For more information on Ubi technology click [here](#).

● Did you know?

Google has been acquiring, on average, more than one company per week since 2010.

Google has a pet T-rex, named Stan, which lives at their California headquarters. Founders bought it to remind the employees to not let Google go extinct.

Google Sky Maps allows you to view stars, constellations, galaxies and planets.

● Tech Links

- [Ubi's next generation interactive whiteboard](#)
- [Ubi Pen interaction tutorial](#)
- [Turn any surface into an Interactive White Board](#)
- [Take your classroom to the next level using Swivl](#)
- [Setting Up Swivl](#)
- [A guide to recording your lectures and slides with Swivl](#)
- [A beginner's guide to BitLocker, Windows' built-in encryption tool](#)

Contact Us

If you would like to be a contributor or for more information about this newsletter please contact us at:

coetechnews@utep.edu

● The Swivl: Cool Tech Tool for Teachers!

The Swivl is an easy-to-use technology tool that acts as a personal cameraman within the classroom; currently used in over 20,000 schools

The Swivl itself is a panning/tilting platform that accommodates all iOS and Android tablets, smartphones, and DSLR cameras. Before using it, you must download the Swivl Capture app. The Swivl will track your whereabouts in the room by a little



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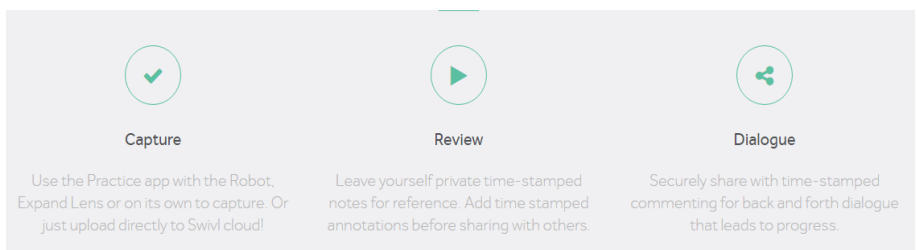
Broad Compatibility
Use any iOS or Android smartphone or tablet, as well as DSLR cameras, to capture video.

Deliver and Capture Slides
Deliver your presentation using your mobile device while simultaneously capturing them on video.

See and Be Seen
Follows you as you move freely with 360° pan and 20° tilt using line of sight technology up to 30 feet away!

Remote Control and Wireless Audio
Control your presentation and what gets captured from a distance. Plus insure high quality audio capture with our lossless connection.

marker that you can hold or clip to a lanyard around your neck. This marker also has a microphone in it, so you and your students can be clearly heard no matter where you are in the room. The Swivl Cloud allows you to create, manage, and privately share videos. You can also embed images and slides directly into the videos, a very advantageous feature for those educators practicing under the Flipped Classroom model. Click [here](#) for more information.



Capture
Use the Practice app with the Robot, Expand Lens or on its own to capture. Or just upload directly to Swivl cloud!

Review
Leave yourself private time-stamped notes for reference. Add time stamped annotations before sharing with others.

Dialogue
Securely share with time-stamped commenting for back and forth dialogue that leads to progress.

Ubi is available in Educ. 403 and 2 more units will be implemented in other education classrooms; location to be determined .

● Using Swivl –Interview with Dr. Ruby Lynch Arroyo

How did you find out about Swivl?

In the summer of 2015, I attended a professional development session on response systems/clickers being given to Las Cruces Public School Teachers by TEAM1st TECHNOLOGIES. The presenter was using the SWIVL to facilitate videotaping the session. Team 1st trainers were very gracious in sharing information about the SWIVL.

What was the main reason to use Swivl in your curriculum instruction?

There is significant research that supports the effectiveness of video feedback. For pre-service teachers who may have never taught a lesson or have been videotaped, the SWIVL facilitates videotaping in an unobtrusive manner. This allows the student to teach practice lessons without focusing on the process of the videotaping.

How have you implemented Swivl in your instruction?

Providing students with effective, immediate feedback is crucial to their growth as pre-service teachers. In the secondary courses [curriculum & lesson planning, math methods, and general methods] the students finalize the semester by developing and teaching practice lessons to their peers. Following their teaching, I meet with each student to review the video as a learning experience. In this discussion, their assignment grade is determined jointly utilizing a rubric.

What have been the advantages of using such technology?

The SWIVL allows me to focus on the actual lesson being taught as opposed to the videotaping process. The SWIVL, following the tracker, rotates the iPad or iPad mini [recommended] filming the student. Videos can be automatically uploaded to the SWIVL account and be shared with the student, as well as edited.

Have you encountered any challenges in using and implementing Swivl in your classroom?

The biggest challenge has been not having an iPad mini. The standard iPad is not as stable in the SWIVL and occasionally will fall out of the SWIVL!!

The tracker microphone functions best when videotaping in conjunction with the SWIVL account. Using the SWIVL to videotape stand-alone relies on the microphone in the iPad. The quality of the audio is not nearly as good.

Lastly, the SWIVL, ideally, should be within 10-15 feet of the person wearing the tracker for video clarity, but does function at greater distances.

What do your students say about Swivl, what is the major consensus?

62 out of 81 students responded anonymously to a survey about the practice teaching exercise, being videotaped, and receiving visual-verbal feedback. The response was overwhelmingly positive, primarily focusing on the value of feedback.

Students were asked to rank three statements using a 1-5 Likert-type scale.

Q#1: "On a scale of 1-5, with 1 being least helpful and 5 being very helpful, how helpful did you find the video feedback?" The mean response rate was 4.919

Q#2: "On a scale of 1-5, with 1 being very uncomfortable and 5 being no distracting qualities, how would you rate being filmed during your mini-teaching exercise?" The mean response rate was 4.491

Cont..

Cont.. Using Swivl –Interview with Dr. Ruby Lynch Arroyo

Q#3: "On a scale of 1-5, with 1 being not at all important and 5 being very important, how important do you think having yourself videotaped teaching is for your growth potential?" The mean response rate was 4.885

I chose a few of the student comments that were included on the surveys – include some, none....

"The use of videotaping lectures can help anyone ... It is the greatest source of feedback one can receive when re-viewing it"

"I believe being able to see what I do and what I don't do while teaching can help me better my instruction as well as being able to repeat good techniques."

"Very helpful. Good to know what to do on another presentation/teaching experience. Enjoyed this activity. Now we all have a feel of what to expect."

"I really enjoyed this activity. It was sort of weird to watch myself, but it will really help me work on the less than stellar aspects of my teaching abilities. Thank you so much !!!"

"I think it is very useful to watch myself because that helps me to detect which are my weak areas and which are my strong areas. That exercise helped me, also, to completely understand the material covered in class."

"I thought the feedback was a good way of viewing yourself and viewing your audience. Many times while teaching or presenting you aren't able to keep constant contact or gauge the interest of all the students. The feedback allows you to see what all students are doing and to learn how to engage all/improve the interest or attention of the audience. Overall thought it was very helpful."

How steep is the learning curve to use and implement Swivl?

Mastery of SWIVL usage can be achieved in 10-15 minutes. The greater amount of learning time is spent on the SWIVL web-site learning that particular editing process.

Do you know of any other professor using this technology?

Drs. Asing-Cashman and Cashman have both used the SWIVL, and I believe the SWIVL has been used in the Early Childhood program at Vilas.

Dr. Ruby Lynch Arroyo is a Professor of Practice at the Teacher Education Department

BitLocker- Windows' built-in encryption tool



BitLocker is Microsoft's easy-to-use, proprietary encryption program for Windows that can encrypt your entire drive as well as help protect against unauthorized changes to your system such as firmware-level malware. BitLocker can provide protection for operating system drives, data drives, and removable drives (such as a USB thumb drive) by encrypting the drives. Depending on how BitLocker is configured, users may have to provide a key (a password or PIN) to unlock the information that is stored on the encrypted drives. BitLocker is available to anyone who has a machine running Windows 7 Ultimate, Enterprise, Windows 8.1 Pro, Windows 8.1 Enterprise, or Windows 10 Pro.

UTEP's new computers already come with windows 10 and have BitLocker automatically enabled. This will also be occurring to in-campus computers that will be upgraded to windows 10.

If you have any issues with BitLocker not allowing you to login to your computer system, please contact the help desk at 4357 or to obtain a BitLocker Recovery Key login from another computer to the following site: bitlocker.utep.edu . Information and steps on how to unlock your system are provided in detail.

