

## Session 4:

### **Hello World! Teaching High School Students to Code Games**

There are many resources that teach students to code. But which are best suited for learning to create games? Are there sources that are good fits for a classroom environment? Which programming language is "best"? These and other questions will be answered as we explore various means to teaching at the Florida Game and Simulation electives (programming track).

*Presenter: FLCTE*

Email: [Kathy.vanvleet@marion.k12.fl.us](mailto:Kathy.vanvleet@marion.k12.fl.us)

### **Proven Strategies for Student Success on Industry Certification Tests – Gmetrx**

In a classroom where students work hard to prepare to take and pass their content area Industry Certification tests, but they don't all learn the same way or at the same pace, teachers need proven success strategies to guide students. Time is of the essence, as students must also learn how to use the software program, not just practice the trainings. Attendees in this session will leave with a devised plan about how to approach Industry Certification testing without becoming overwhelmed in the process.

*Presenter: Tiffany Cantrell*

Email: [Cantrell.tiffany@sarasotacountyschools.net](mailto:Cantrell.tiffany@sarasotacountyschools.net)

### **What it takes: Helping Girls find their way to Manufacturing, Industrial, and Engineering Careers**

Women continue to have very low representation in the Manufacturing workforce, yet manufacturing careers offer great opportunities for women. Manufacturing continues to offer wages higher than most other sectors of the economy with strong benefits packages. Over the years, FLATE has worked with educators across Florida and across the nation identifying successful strategies that work. There are many resources, options and opportunities to address this issue. Ultimately, consistent Implementation of any strategy is key. In this session, FLATE will share successful strategies for recruiting and retaining girls into these non-traditional career pathways for women.

*Presenter: Marilyn Barger and Danielly Orozco-Cole, FLATE*

### **The ABC's of Creating and Implementing an Effective Problem Solving Summit**

Problem Solving is one of the key skills that employers seek in job applicants and on the job. Designing activities and creating engaging environments that go beyond a textbook is crucial. The result is that students will leave school better equipped with the ability to solve

problems and come up with solutions that will enable them to thrive in the future. Employers will be happy, because students are prepared. It is a win-win. So, how do we engage business partners, students, and schools so that this happens? One solution is the Problem-Solving Summit. Join us for an interactive session to learn the ABC's of Creating and Implementing an Effective Problem-Solving Summit. The presenters will begin with a brief background and overview of how it works. Attendees will participate in a Problem-Solving Summit. They will be able to see how skills are developed and applied as real-world problems are solved. Testimonials will be provided from students and business partners. Business partners can see how they can benefit from relationships with the schools. This model is also transferable to schools. Come find out why and how! Come find out how this session is limitless to solving real world issues and you will be able to walk away and see the impact it can have!

*Presenters: Sandra Gault and Elizabeth Duffy*

Email: Sandra.gault@sdhc.k12.fl.us

### **Aligning Academic and CTE Pathways**

This presentation will focus on how core academic courses such as ELA, Math, Science, and Social Studies can be partnered with CTE career pathway programs to strengthen instruction and student achievement in both. Participants will learn through the use of real-world examples how Osceola Technical College (oTECH) and our associated Professional and Technical High School (PATHS) have combined academic and CTE pathways to strengthen student outcomes in a variety of measurable areas. This presentation will also include an in depth look at how vertical collaboration starting in the ninth grade through the end of the students CTE program is established and delivered with instructional and support staff leading to the realization of our mission statement...every student, future ready.

*Presenter: Thomas Ott*

Email: Thomas.Ott@osceolaschools.net

### **FLDOE State Supervisor Update**

Law, Public Safety, and Security

*Presenter: Melissa Tomlin*

### **Perkins Programs of Study: The Basics and Best Practices**

This session will provide information on the Perkins grant requirement for Programs of Study and answer why Programs of Study matter. Attendees will have the opportunity to listen to a panel of secondary and postsecondary local practitioners explain how they work together to develop, implement, and revise local Programs of Study. Best practices for building successful partnerships focused on Programs of Study designed to prepare students for the workforce will also be discussed

*Presenters: Bruce Harrington, Cathy Hammond and Lee Chips-Walton*

## **Apprenticeship Strand Presentation**

*Presenter: Richard "Ted" Norman, FLDOE*

### **Creativity to Careers - Middle School Animation CTE as a Model**

The session will introduce school districts to our new model to which creates a continuum from middle school to high school and beyond, progressing from Animation-ish to Toon Boom software and gaining experience and certification on the journey.

While some schools are using animation in middle school for content and creativity, middle school teachers can be outside of their comfort zone in approaching CTE. We can provide unique scaffolding for both teachers and students with our Creativity to Careers program.

We have developed the fundamental elements to expand the uptake of animation as a bona fide CTE program in middle school. While teachers can continue to use our animation software as they do now, we will add the curriculum, training and professional development to link the program to a career path. Our own FableVision professional animation studio in Boston MA is our model for students, and they can have virtual access to the studio for tours and mentoring. We have linked with Summit Global to provide the middle school certification. We have applied for listing as on Florida Digital Tools.

The goal of our Creativity to Careers program is to ensure a good take up of animation CTE in high school by starting in middle school, giving students the opportunity to test out careers before committing to a 2-year program. While learning animation, students will also be developing core work skills in communication and collaboration, as well as a host of inherent skills within an animation studio.

*Presenter: Jane Reynolds*

Email: [jane@fablevision.com](mailto:jane@fablevision.com)

### **Credentialing, Curricula, and Careers for Biotechnology**

The opportunity to earn industry-recognized credentials has become increasingly important in secondary programs designed to prepare students for careers, as well as postsecondary options. We invite you to participate in curricular activities designed to introduce students to a variety of career options in the bioscience industry, while learning industry-defined topics included in the Biotechnician Assistant Credentialing Exam (BACE).

Learner Objectives:

- Discuss biotechnology/biomedical program content and skills, in the context of applications to the bioscience industry.
- Participate in discussions about the bioscience industry work environment, and career options

- Learn specifics relating to the major topics and administration of the BACE, and discuss strategies and best practices for student success.

*Presenter: Tamara Mandell*

Email: tmandell@cerhb.ufl.edu

### **Using Psychology to Enhance Student Motivation and Success**

The goal of this session is to teach participants how to increase student motivation through career choice, study skills enhancement, and behavior modification. Attendees will learn about the most effective study skills along with a number of motivational strategies that can be used with students. They will also develop their own behavior modification plan that will serve as a model to facilitate student self-motivation. In addition, participants will leave with a wealth of free resources ([www.drkit.org](http://www.drkit.org)) that can be used to motivate and educate students across disciplines. Specific strategies, not generalities, will be the focus of the session...this is definitely in the no-fluff zone!

*Presenter: Dr. Kit Nast*

Email: knast@bishop.edu

### **HOT TREND ALERT! Add a Personal Finance Lab to your school!**

Many high schools have chemistry and biology labs, but why don't they have Personal Finance Labs? We will show you how to convert your ordinary classroom into an exciting Personal Finance Lab with scrolling stock tickers, Wall Street-style LCD screens, and a customizable stock market game with embedded curriculum aligned to standards. Create your own Personal Finance, Business, Economics and Investments assignments using our vast curriculum library.

*Presenter: Mark T. Brookshire*

Email: mark@StockTrak.com

### **CIW Certifications and ICT Essentials Updates For This Year**

Come join the CIW Certification and ICT Essentials team in an overview of some of the updates to CIW Certifications and ICT Essentials. In this presentation, we will go over some of the updates we have completed to curriculum for Site Development, Network Technology Associate, and Database Design Specialist. We will also introduce the new Spanish version of the CIW Internet Business Associate Certification. We will also go over our ICT Essentials program that is designed for Digital Tool Certificate Funding.

*Presenters: CIW Certifications and ICT Essentials (Certification Partners LLC)*

Email: ebarrantes@certificatoon-partners.com