



THE NATIONAL CENTER
FOR SIMULATION

***EDUCATION AND WORKFORCE DEVELOPMENT COMMITTEE
MEETING MINUTES
26 April 2018***

ATTENDEES

Amanda Allen (stemCONNECT), Robert Beattie (Dignitas Technologies/UCF), Debbie Berry (LMCO), Marilyn Doyle (OCPS), Dr. Dennis Duke (FIT), Dr. Bill Gaught (SSC), Dr. Steve Gordon (GTRI), Brandon Hanshaw (Crooms AOIT), Dr. Cap Jadonath (OCPS), Annette Love (OTC-East River HS), Angel Maldonado (OCPS), Hank Okraski (NCS), Brent Smith (ADL), Sonia Smith (Sanford HS), Lindsey Spalding (SCPS), Gene Tavares (SCPS), Ken York (Vsparq), Lynn Vander-Zyl (Osceola CPS),

Agenda is provided as Attachment A.

Meeting minutes and presentations will be posted on the NCS website:

www.simulationinformation.com

ACTIVITIES AND DISCUSSIONS:

A. Welcoming

Hank Okraski welcomed the committee members to the meeting held in the Central Florida Research Park, Partnership II Bldg. Attendees introduced themselves.

B. Status of Ed&WD Committee Activities-

Hank Okraski, Committee Chairman, reported on the most recent activities of the committee. They are summarized as follows (Attachment B):

- Hiring M&S Interns campaign underway. Need help from industry in bringing these exceptional students on board. They have the skill set proving to be valuable.. Interns hired by Cole Engineering, Dignitas Technologies and Cubic Corporation.
- Awarded 10- \$1,000. scholarships to high school students at 10 schools. Carla Hoskins (NCS) is the NCS Point of Contact.
- State of Virginia approves industry M&S Certification. Listing will be published on the Virginia Department of Education website showing recent approved industry certifications. Hank is checking to discover the Virginia schools offering

- modeling, simulation, animation, gaming and visualization. Certification Partners will be approaching other schools such as Ohio, Alabama, Arizona and California.
- Certified students seeking internships now posted on NCS website. Students must be 18 years of age or greater. Point of Contact at NCS is Carla Hoskins
 - Certified teachers (26) recognized on NCS website and I/ITSEC. A brief survey was made of those teachers to see if they would like to meet and network at I/ITSEC 2019. The response was light and the issue brought up was funding substitute teachers.
 - Participated in Zora! STEM January middle school event at Rollins and OTC(MFC). N.Y. Nathiri expanded the number of middle schools attending and the team was able to accommodate the larger number with a program that was well received by the students.
 - Certification Board met 21 February 2018. The details of the certification program are outlined in the attachment..
 - Participated (with ECS) in Crooms AOIT TechFest 15 March 2018.Scott Beck from ECS displayed a serious virtual reality game at the event.
 - Lindsey Spalding, Hagerty Lead M&S Teacher, leaves in May 2018. SCPS filling vacancy. Seminole County Public Schools is working very hard to replace this outstanding teacher. The position was advertised early, something not routinely done by the district. Dr. Jason Wysong and Gene Tavares (SCPS) are moving the recruitment along. Dr. Walt Griffin, Superintendent, is aware of the seriousness of the situation,
 - Working with Timber Creek HS and Hungerford ES. Lockheed Martin donating Prepar3d to both schools. Hungerford ES will be receiving 25 licenses.
 - Participated in several Advisory Boards, including Seminole State College, OTC and others. SSC briefing will follow.
 - Hagerty HS students occupied NCS STEM Pavilion at I/ITSEC. The students worked very hard and their demonstrations were very professional in content and delivery.
 - Hank presented the “Fellow” paper at I/ITSEC: *Remembrances of a Simulationist*.
 - Florida DoEd, under the direction of Debra Perdue, conducted 3-year review of M&S Secondary & PSAV Course Standards. A team was assembled by NCS to include Cole Engineering, Dignitas Technologies and
 - The Teaching the Teacher training program planned for June 2018 was cancelled due to lack of resources. Another event for April 2019 is being planned. More on that later.

C. Central Florida STEM Education Council (CFSEC) Status

Carol Ann Dykes Logue outlined the following Council activities and initiatives:

1. The annual DiSTI Gold Duffer will be held 27 October at Country Club of Deer Run. Funds from previous Duffers have been used each year to support UCF Robo-Knights, Seaperch, Central Florida YMCA STEM programs, scholarships for local high school seniors and more.

2. The Council is redirecting some of the funds from the DiSTI Duffer to an Educator Grant Program to support professional development in STEM education and STEM materials for classrooms.
3. The April General Council meeting focused on advanced sensors and was held at BRIDG in Osceola County. The next one will focus on environmental sciences and be held in early August.
4. The Council partnered with two Florida Institute of Technology College of Business professors and served as a project for their classes during the Spring semester. The classes were asked to assess the current gaps in STEM education and identify some ways educators and students can be better supported. Once we have put together a summary of the class reports and presentation, we will provide that to Hank.
5. Planning is underway for I/ITSEC 2018. The Council will once again manager the STEM Pavilion and conduct an educator workshop. The workshop this year will focus on the use of virtual reality as a teaching tool. Discussions are also taking place about potentially offering a “job fair” during I/ITSEC for university and college students to connect with companies on the exhibit floor.

D. Seminole County and Hagerty High School M&S Implementation Status

Gene Travares reported that the district is doing everything possible to fill the position to be left vacant at Hagerty High School. Dr. Jason Wysong will provide funding for her replacement to work with industry during the summer, to give the person relevant industry experience.

Lindsey Spalding, Lead M&S Teacher at Hagerty High School, reported on progress in implementing the Modeling & Simulation curriculum. (Attachment C).

E. M&S Certified Student Intern in Industry Experience

Robert Beattie, a graduate of the M&S Program at Hagerty High School and M&S Certified student, gave his perspective of transitioning to an internship in industry. (Attachment D)

F. Orange County Public Schools M&S Program

Dr. Cap Jadonath briefed on the status of M&S in Orange County schools as follows:

Orange Technical College is working on our Vision 2022 with the following OTC CTE Goals:

- All CTE programs are held to the highest standards of excellence
- All learners are empowered to choose a meaningful education and career
- All learning is personalized and flexible
- All learning is facilitated by knowledgeable experts

- All systems work together to put learner success first

Other news:

We are moving Gaming and Simulation from Orlando campus to Mid Florida Campus

Looking for a Modeling and Simulation teacher fulltime for University HS

Tech Express with OTC and Valencia College has grown from 5 students last year to now 119 students 2017-2018 school year

WPC will upgrade Ms. Love's M&S computers at ERHS this summer

Would like to see more application of M&S across other disciplines (Transportation, Construction, Medical etc.)

G. East River High School M&S Spotlight

Annette Love, M&S teacher at East River High School and M&S Certified, presented samplings of the very accomplished work performed by her students, (Attachment E).

H. New Seminole State College M&S Emphasis

Dr. Bill Gaught, Seminole State College, briefed the group on a new program with Simulation emphasis. (Attachment F).

I. STEM CONNECT

Amanda Allen, Florida HiTechCorridor, briefed on stemCONNECT, a new medium to bring experts into the classroom. NCS strongly supports this program and recognizes the utility of this innovative program. Teachers, please take advantage of it.(Attachment G).

The meeting was adjourned at 5:15.