



**TUSCARAWAS**



**Kent State University Tuscarawas and Entrepreneurial Engagement Ohio  
invite the students and teachers of Ohio to participate in a**

## **STEM Commercialization, Entrepreneurship & Innovation Forum at Kent State University Tuscarawas**

**Founders Hall, 330 University Drive, N.E., New Philadelphia, Ohio 44663**

**Friday, February 9, 2018, 9:30 a.m. – 1 p.m.**

Attending students will participate in an extraordinary program that will open their eyes to the future, inspire them to ‘think outside the box’, and provide them with an opportunity to interact with entrepreneurial faculty at Kent State University Tuscarawas who will discuss how STEM advancements are shaping the future.

- Mr. Paul Dykshoorn will speak about new applications of old technologies in a presentation entitled “Why not?”
- Dr. Beth-Allyn Osikiewicz, will speak about different types of math modeling as it relates to everyday life applications in a presentation entitled “Math Modeling Montage”
- Dr. Jeremy Green will speak about the use of modern analysis equipment on old bones in a presentation entitled “Paleontology in the Digital Age”
- Dr. Donald Gerbig will speak on how stress can influence microorganisms and student research exploring this topic in a presentation entitled “Combating Killer Microbes, Biology Education at Kent State Tuscarawas”

At the Forum, students will hear the speakers describe how their innovations will help shape the future. After listening and interacting with the speakers, attending students, assisted by college student mentors, will be tasked to work in teams to develop a new product, service or problem-solving innovation idea that they will later pitch “Shark Tank style” to their peers. The students will also learn about opportunities available to them at Kent State.

The Forum will begin at 9:30am and end at 1:00pm, with students attending as part of a teacher or parent chaperoned group. Ohio high school and middle school students are invited to attend. As capacity is limited, registrations will be accepted as space is available. Transportation subsidies of \$100 are available on a first-come first-served basis to schools that bring 15 or more students.

Sincerely,

*John Klipfell*

John M. Klipfell, Executive Director  
Entrepreneurial Engagement Ohio

*Paul Dykshoorn*

Paul Dykshoorn, Director  
Engineering Technology Department  
Kent State Tuscarawas



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**ENTREPRENEURIAL  
ENGAGEMENT OHIO**

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STEM Commercialization, Entrepreneurship & Innovation Forum  
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Friday, February 9, 2018, 9:30 a.m. – 1 p.m.**

***Timetable of Student Activities***

<b>Time</b>	<b>Location</b>	<b>Program</b>
9:00 a.m.	Founders Hall	Check-in
9:30	Founders Hall Auditorium	Program begins – Introduction and Opening Session <ul style="list-style-type: none"> <li>Opening video – “Are you ready for the future? Do you believe in Ohio?” (6 min)</li> <li>Introduction – Why students are here, review agenda – John Klipfell (6-7 min)</li> <li>Kent State Tuscarawas Welcome (10-12 min) – Mr. Paul Dykshoorn, Director, Engineering Technology Department</li> </ul>
9:55	Founders Hall Auditorium	Mr. Paul Dykshoorn will speak about new applications of old technologies in a presentation entitled “Why not?” <ul style="list-style-type: none"> <li>Speaker presentation (15 min) Q &amp; A (5 min)</li> </ul>
10:15	Founders Hall Auditorium	Dr. Beth-Allyn Osikiewicz, will speak about different types of math modeling as it relates to everyday life applications in a presentation entitled “Math Modeling Montage” <ul style="list-style-type: none"> <li>Speaker presentation (15 min) Q &amp; A (5 min)</li> </ul>
10:35	Founders Hall Auditorium	Dr. Jeremy Green will speak about the use of modern analysis equipment on old bones in a presentation entitled “Paleontology in the Digital Age” <ul style="list-style-type: none"> <li>Speaker presentation (15 min) Q &amp; A (5 min)</li> </ul>
10:55	Founders Hall Auditorium	Dr. Donald Gerbig will speak on how stress can influence microorganisms and student research exploring this topic in a presentation entitled “Combating Killer Microbes, Biology Education at Kent State Tuscarawas” <ul style="list-style-type: none"> <li>Speaker presentation (15 min) Q &amp; A (5 min)</li> </ul>
11:15	Students walk over to Performing Arts Center	Short break
11:20	Performing Arts Center	Working lunch and Brainstorm Session (Mentors join students at tables) <ul style="list-style-type: none"> <li>Social pizza and soft drink lunch and break (10 min)</li> <li>Mentors lead high school students in brainstorm sessions to develop new products, services or problem solutions or opportunities using Believe in Ohio Roadmap (25 min)</li> </ul>
11:55	Performing Arts Center	Student groups present their ideas to their peers using their Roadmap (1 minute each)
12:45	Performing Arts Center	Brief closing program – Program ends at 1 p.m.

Speakers may present in a different sequence to that shown above.

***Funding for this event has been provided by Burton D. Morgan Foundation.***

## **Kent State University at Tuscarawas STEM Forum Speakers Bios**

### **Mr. Paul Dykshoorn will speak about new applications of old technologies in a presentation entitled “Why not?”**

Mr. Paul Dykshoorn is a 1985 graduate of Clarkson University with a Master’s Degree in Mechanical Engineering. He began his engineering career working for Babcock & Wilcox Company where he conducted research on pollution control equipment and holds a patent entitled “Dry Scrubber with Forced Recirculation”. He also worked for several years as a Professional Engineer and later moved into academia, teaching at Stark State College. His passion for connecting people with employment led him to co-found the non-profit “Men’s Challenge” in 2012. Currently he is the Director of the Engineering Technology Department at Kent State University Tuscarawas.

### **Dr. Beth-Allyn Osikiewicz, will speak about different types of math modeling as it relates to everyday life applications in a presentation entitled “Math Modeling Montage”**

Dr. Beth-Allyn Osikiewicz, received both her Bachelor's and Master's in Mathematics from Youngstown State University. She received her Ph.D. from Kent State University in 2000, and has taught at the Tuscarawas Campus since Fall 2000. Currently she holds the position of Math Coordinator for the campus.

### **Dr. Jeremy Green will speak about the use of modern analysis equipment on old bones in a presentation entitled “Paleontology in the digital age”**

Dr. Jeremy Green teaches undergraduate and graduate courses in geology and paleontology and has advised student research projects at the Senior Honors Thesis and Master of Science levels. His research expertise focuses broadly on the evolution and paleoecology of mammals, with an emphasis on tooth wear as it relates to diet and bone structure in relation to skeletal growth. Primarily, Dr. Green’s favorite mammals to work on include xenarthrans (sloths, armadillos, and anteaters), proboscideans (elephants and their extinct relatives), deer, and dicynodonts (extinct mammal-like reptiles). He has participated in paleontological field work across the United States and has working research collaborations with other paleontologists at the national and international level.

### **Dr. Donald Gerbig will speak on how stress can influence microorganisms and student research exploring this topic in a presentation entitled “Combating Killer Microbes, Biology Education at Kent State Tuscarawas”**

Donald G. Gerbig Jr. is an Associate Professor in the Department of Biological Sciences at the Tuscarawas Campus. Before coming to Kent State in 1996, Gerbig conducted research at the University of North Carolina and the State University of New York at Buffalo. He earned his Ph.D. in Comparative and Experimental Medicine in 1991 and his master’s in Microbiology in 1987 at the University of Tennessee in Knoxville. He earned his bachelor’s degree in Biology at The University of Akron. He has authored and coauthored a number of pedagogical papers presenting research techniques to undergraduate laboratories. He lives in Dover with his wife and occasionally hears from his three daughters, who are living their dreams after a successful Kent State education.