



Lorain County Community College and Entrepreneurial Engagement Ohio invite the students and teachers of Northeast Ohio to participate in a

STEM Commercialization, Entrepreneurship & Innovation Forum at Lorain County Community College

Spitzer Conference Center, 1005 N. Abbe Rd, Elyria, Ohio 44035

Tuesday, February 6, 2018, 9:30am – 1:00pm

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 researchers and practitioners associated with Lorain County Community College. These innovators will discuss how their innovative ideas will shape the future:

- Rick Pollack will speak about *"MakerGear and the exploding world of 3D printing"*
- Dr. Regan Silvestri will speak about *"Implementing Waste-to-Energy in Kazakhstan based on practices from Lorain County"*
- Brynt Parmeter will speak about *"FlexFactor and the dynamic role Flexible Hybrid Electronics will play in our future."*

At the Forum, students will hear the speakers describe how their innovations will help create 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 innovation and entrepreneurship opportunities available to them at LCCC.

The Forum will begin at 9:30am and end at 1:00pm, with students attending as part of a teacher or parent chaperoned group. All Northeast 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

Aaron Weiss

Aaron Weiss, Interim Dean
Science & Mathematics Division

Kelly Zelesnik

Kelly A. Zelesnik, Dean
Engineering, Business and
Information Technologies Division



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Timetable of Activities

Time	Location	Program
9:00	Grand Ballroom	Check in
9:30	Grand Ballroom	Program begins – Introduction and Opening Session <ul style="list-style-type: none"> • Opening video – “Are you ready for the future? Do you believe in Ohio?” (6 min) • Introduction – Why students are here, review agenda – John Klipfell (6-7 min) • LCCC Welcome – Dr. Jonathan Dryden, Provost (8-10 min)
9:55	Grand Ballroom	Rick Pollack will speak about “MakerGear and the exploding world of 3D printing” <ul style="list-style-type: none"> • Speaker presentation (15 min) Q & A (5 min)
10:15	Grand Ballroom	Dr. Regan Silvestri will speak about “Implementing Waste-to-Energy in Kazakhstan Based on Practices from Lorain County” <ul style="list-style-type: none"> • Speaker presentation (15 min) Q & A (5 min)
10:35		Five-minute stand and break in place
10:40	Grand Ballroom	Brynt Parmeter will speak about “FlexFactor and the dynamic role Flexible Hybrid Electronics will play in our future.” <ul style="list-style-type: none"> • Speaker presentation (25 min) Q & A (5 min)
11:10	Grand Ballroom	Working lunch & Brainstorm Session (LCCC students/mentors join students at tables) <ul style="list-style-type: none"> • Social lunch & break (10 min) • LCCC student/mentors lead student brainstorm sessions to develop a new product, service or problem solution or opportunity using the Believe in Ohio Roadmap (35 min)
11:55	Grand Ballroom	Students present their ideas to their peers using their Roadmaps (1 minute each)
12:40	Grand Ballroom	Brief closing program
1:00		Program ends – Students go to buses and transport

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

Principal Speaker Bios

Brynt Parmeter will speak about “FlexFactor and the dynamic role Flexible Hybrid Electronics will play in our future.”

Brynt Parmeter has a diverse background in both the public and private sectors. In addition to his current role as the Director, Workforce Development at NextFlex, a national advanced manufacturing consortium, he also serves as a Science and Technology Policy Fellow for the Department of Energy's Advanced Manufacturing Office; is the Co-Founder of WorkScouts, a technology platform designed to connect transitioning service members and veterans with education and employment opportunities in advanced manufacturing; and is a Partner with BMNT, a company focused on solving national security problems through the application of Lean Startup principles. Prior to these roles, Brynt served nearly 25 years as an Infantry Officer in the U.S. Army rising to the rank of colonel. During his time in uniform, he served in a wide variety of leadership, operations, and training roles to include three combat tours in Iraq between 2004 and 2009. He holds a BS in Systems Engineering from the U.S. Military Academy at West Point, NY, several MA degrees in Liberal Arts and Strategic Studies from Louisiana State University and the US Army War College respectively, and a graduate level certificate in Business and Entrepreneurship from Stanford University.

Brynt Parmeter will speak about FlexFactor a novel pilot program that was designed to introduce high school students to the world of flexible hybrid electronics (FHE) and advanced manufacturing. Once in full production, FHE will usher in a new era of “electronics on everything.” Intelligence will be taken out of the “boxes” or packages associated with traditional electronics like PCs, smartphones and tablets, and transplanted directly onto a variety of surfaces including the human body, enabling an entirely new breed of defense and commercial applications we haven’t imagined.

Rick Pollack will speak about “MakerGear and the exploding world of 3D printing”

Rick Pollack is a serial entrepreneur. A graduate of the University of Cincinnati, trained in computer science, and with over twenty years experience in software development, Rick’s ventures include a CRM-software company, which was acquired in 2000; a gaming device company dedicated to connecting families at long distances; as well as a crowdsourcing venture, where he pioneered the use of open source technologies to spur innovation. He is founder and CEO of MakerGear, a designer and manufacturer of affordable, desktop 3D printers with 10 employees. He lives in Northeast Ohio with his wife, Karen, and two daughters.

Dr. Regan Silvestri, will speak about “Implementing Waste-to-Energy in Kazakhstan Based on Practices from Lorain County”

Dr. Regan Silvestri is an Assistant Professor of Chemistry at Lorain County Community College in Elyria, Ohio. At LCCC, Dr. Silvestri directs a student research group investigating the science of the flavor of whiskey. Professor Silvestri holds a doctorate degree in polymer engineering from Case Western Reserve University. For fun, Professor Silvestri performs his science magic show “Magical Science!!” as a volunteer at schools throughout northeast Ohio. Dr. Silvestri has completed a volunteer service assignment in the United States Peace Corps as a Visiting Professor of Environmental Science in the Republic of Kazakhstan, where he lived and worked for four years, and since his return to the USA has directed student research on implementation of waste-to-energy strategies in Kazakhstan.