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NEWARK STEM Ecosystem Executive Committee



Bruce Bukiet. PhD. Professor of Mathematical Sciences & Associate Dean College of Science & Liberal Arts NJIT



Alexander Gates, PhD. Director & Pl. Garden State LSAMP / Distinguished Service Professor Earth & Environmental Sciences **Rutgers University**



James Lipuma, PhD. Director of CLEAR Center. Humanities and Social Sciences. NJIT



Brad Schenker Coordinator - Newark STEM Ecosystem LEAD STEM Fellow, SLECoP Consultant - Schenker Consulting Group



Kim Case, J.D. Executive Director. Research & Development Council of NJ



Robyn Brady Ince Ex. Dir., Newark City of Learning Collaborative Assistant Professor Rutgers-Newark



Shirley Mautone Programs Manager - R&D Council of NJ Project Manager - NJSPN



Superintendent Morris Plains School District



Janice McDonnell STEM Agent Dept. of 4-H Youth Development **Rutgers University**



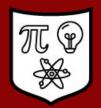
Jessica Mckenzie, MPA Lead of CSR & Program Officer The Panasonic Foundation



Marissa Staffen County 4-H Agent, Dept. of 4-H Youth Development Director, Department of Science Rutgers University-Newark



Kathleen Tierney Newark Public Schools



MORNING AGENDA STEM Connections: Building Bridges to Our Workforce

Time	Topic			
8:15-9:00	Check In, Networking, Exhibitors, with Continental Breakfast			
9:00-9:15	Welcome - Newark STEM & University Leadership			
9:15-9:45	A STEM Professionals Story Corey Samuels - LEGO Master & STEM Educator			
9:45-10:30	Outlining the STEM & Innovation Landscape w/ the Innovation Atlas - Jarell Brown, The Henry Ford			
10:30-10:45	Break			
10:45-11:20	Identifying the Opportunities & Needs of the Region Small Group Session			
11:20-11:30	Remarks from NJSPN and NJIT Leadership			
11:30-11:45	Newark STEM: Seven Organizations, One Collaboration Story			
11:45-1:00	Visit Tables & Networking - Lunch served at 12pm			



AFTERNOON AGENDA

STEM Connections: Building Bridges to Our Workforce

	Main Ballroom	Room 240	
1:00-1:15	Move to small group sessions		
1:15-1:45	Student-to-Student Mentorship A Discussion with: Jennie Thomas, 4-H Rutgers Coop. Extension Eileen Neri, The Achieve Foundation	Young Innovators: Empowering Kids to Become Future Entrepreneurs Alissa Schonmann Morris Plains Borough School	
1:45-1:50	Move to small group sessions		
1:50-2:20	Student-to-Student Mentorship A Discussion with: Jennie Thomas, 4-H Rutgers Cooperative Extension Shannon Kirk, The Achieve Foundation	Cultivating a STEM Mindset in K-6 Classrooms. Discussion with the National Inventors Hall of Fame Andrea Dulac - NIHOF DeAnne Fischbach, Lafayette Elementary School Gina Petrusky, Smalley School	
2:20-2:35	Break		
2:35-3:20	Main Room Panel Discussion: Building Our Bridge Between PK-20 and the Workforce From DEI to empowering teachers and securing essential resources, these are some of the priorities that drive transformative STEM education. Join us as experts share their insights and strategies to inspire meaningful change.		
3:20-4:00	Taking Action with Collaboration and Commitment Group reflection on the day's discussions and information sharing, and what steps can be taken to turn talk into action.		



Today's Vision:

To uncover and create pathways that empower our youth to pursue their hopes and dreams, ensuring a future filled with endless possibilities and fulfilling careers.

Our Mission:

To empower students' success by being the <u>Connector</u>, <u>Collaborator and Clearinghouse</u> between educators, industry and STEM/Innovation professionals (collectively "STEM Shareholders").

Through understanding the work and activities of STEM Shareholders, we can co-design an inclusive educational support system that works towards workforce readiness.

We strive for equitable outcomes for a diverse population of K-20 learners in Newark and Essex, Morris, Passaic, Sussex, Union, and Warren counties.















Our Goals for Today:

- Developing the <u>Opportunity Landscape</u> for STEM and Innovation Learning programs and how they connect to workforce readiness
- 2. <u>Identifying Gaps</u> for Newark STEM to address in 2025
- 3. **Making Commitments** for NJ STEM Month (March)
- 4. **Painting a Picture** of the State of STEM within our CoP















Morning Speakers

Corey D. Samuels

CEO

Samzbrego

LEGO Master and winner of the 2024 Fox TV Show "LEGO Master Bricktacular"

Dr. Kevin Belfield

Dean

College of Science and Liberal Arts, NJIT

Professor of Chemistry and Environmental Science

Fellow of the Royal Society of Chemistry

Jarell Brown

Director of Analytics & Business Intelligence The Henry Ford

Dr. John Pelesko

Provost

Senior Vice President for Academic Affairs

NJIT

Jeffrey A. Robinson, Ph.D.

Interim Chancellor

Rutgers University - Newark

Alexander Gates (PI)

is a Distinguished Service Professor at RUN and will serve as director of the Project. Gates is the PI/Director of the GS-LSAMP



Learning Blade Special Offer



Sign up for the CTE and STEM lessons, 18 month license for 12 month price

STEM, Computer Science, and CTE lessons

Appropriate for grades 5-9, Learning Blade provides ready-to-use online lessons for math, science, social studies, and language arts aligned to state standards and include corresponding lesson plans for teachers, parent handouts, and more!

This opportunity is open to the Newark STEM Ecosystem community, covering the counties of Essex, Morris, Passaic, Sussex, Union and Warren.

Must sign up before March 31, 2025

Visit their table for more information



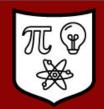
Student-to-Student: A Look at Peer-to-Peer Mentoring and Tutoring Models

Jennie Thomas

Community Manager 3-H / Rutgers Cooperative Extension



Shannon Kirk - Manager
Achieve Volunteer Tutor Program
The Achieve Foundation of South Orange
& Maplewood



Building Our Bridges Between Education and the Workforce



Jason Bing
Superintendent
South Orange-Maplewood School District



James Howard
Executive Director
Black Inventors Hall of Fame



Chrissy RebertVP of Global Instructional Solutions
Teq



Convening Outcomes January 16, 2025 Held at NJIT















The Story

The Event

- Over 220 registrants, with 120+ attendees from 85 different towns and 87 different organizations
- Cross-section of STEM shareholders attended, covering most of our targeted sectors
- Strong support for Newark STEM to continue, and focus, its work

Desired Outcomes for Newark STEM (based on survey results):

- 1. Provide and share info on STEM learning and career readiness
- 2. Provide resources for shareholders to share information
- Provide more opportunities for collaboration and learning through in-person and virtual events
- Further explore how data can be used to advanced the work of Newark STEM and its community



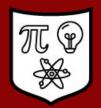












87 Organizations Represented (125 registered)

4-H Rutgers Cooperative Extension		
Achieve Foundation		
Arman Roy Foundation		
Berkeley Heights Public Schools		
Bound Brook School District		
Broadridge Financial Solutions		
Caldwell University		

Caring for Children - Bricks 4 Kidz Essex

Central High SCHOOL

CHS Consulting Services

Dover Public School District

Dunellen Public Schools

East Orange School District

East Side High School

eDynamic Learning

Fair Lawn High School

Fair Lawn School District

Girl Scouts Heart of NJ

High School Research Mentorship

Hillside Public Schools

Hoboken Public Schools

HSMC STEM Ecosystem

iLearn Schools

Ironbound Academy

Jefferson Schools

Jersey City	Public	Schools
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Keansburg School District

Kearny School District

Kittatinny Regional High School

Maplewoodshop

Marion P. Thomas Charter School

Montclair State University

Morris Plains School District

Morris School District

Mountain Lakes School District

MRRI Institute

MTSD

NAACP Newark NJ Branch

National Inventors Hall of Fame

net.America

New Jersey Institute of Technology

NJ Academy of Science

NJ Commission on Science, Innovation, and Technology

NJ Department of Transportation

NJ STEM Pathways Network

NJIT - Gear Up/College Bound

Passaic Academy of Science and Eng.

Passaic Preparatory Academy

Passaic Public Schools

Pennsylvania Alliance for STEM Education

Plainfield Public Schools

Plainfield Public Schools/21st CCLC

PSEG

Quintilian

Rahway Public School

Rekindle Education

Research & Development Council of NJ

Retired STEM teacher

Roselle Borough Schools

Rutgers - New Brunswick

Rutgers - Newark

Rutgers - Newark, GS-LSAMP

Rutgers University - Newark Center for PreCollege Programs

Samz Brego

Schenker Consulting Group

Science Park High School

Silverquicken Education, Inc.

South Orange-Maplewood School District

State of NJ - Div. of Civil

Rights/Affirmative Action

STEAM for ME NJ Inc

STEAM URBAN

Stevens Institute of Technology

Students 2 Science

TBA!

Technology High School

Teq

Terra North Jersey STEM Fair

Terra Science and Education

The Henry Ford

TIES

TRC Environmental Corp.

UCNJ Union College of Union County, NJ

University Academy Charter High School

WCRC

West New York Public Schools

William Paterson University

Youth Spirit Club Incorporated





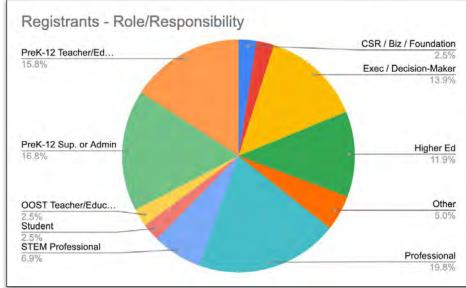


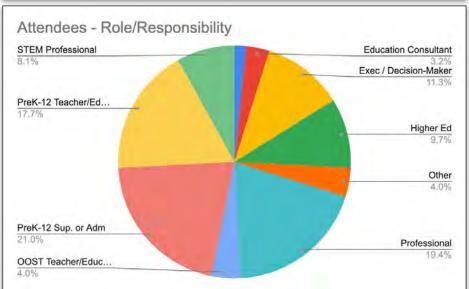














Registrants and Attendess:

202 registants, including exhibitors and volunteers

- 85 different towns
- 20% Professionals related to STEM
- 17% PreK-12 Sup/Admin
- 16% PreK-12 Teacher/Educator
- 14% Executives/Decision Makers at STEM related org

124 'checked in' from 54 different towns

- 21% PreK-12 Sup/Admin
- 19% Professionals related to STEM
- 18% PreK-12 Teacher/Educator
- 11% Executives/Decision Makers at STEM related org



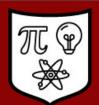




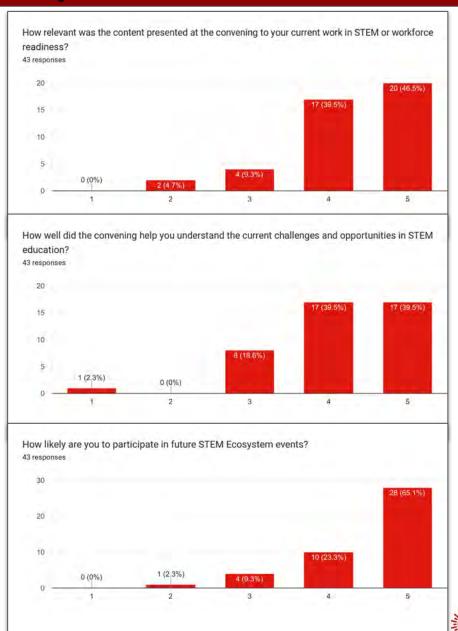








EVENT EXPERIENCE





- 86% found the content very or extremely relevant
- 79% responded that convening helped to understand the current challenges and opportunities in STEM Education
- 88% would participate in a future Newark STEM event



National Inventors









EVENT EXPERIENCE - COMMENTS



What specific ideas or strategies from today's convening do you plan to implement in your work?

- 1. More open access, collaboration and access for students
- 2. Creating more community & STEM learning partnerships
- 3. Increase utilization of data









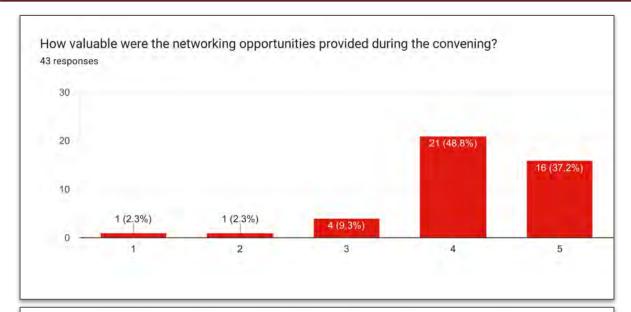


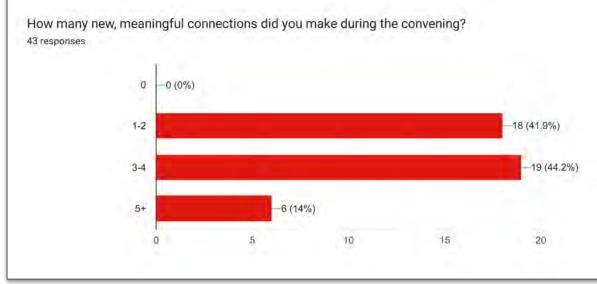






Networking Opportunities

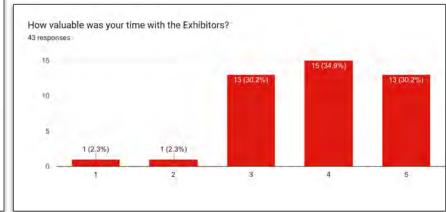




86% valued the networking opportunities

58% making 3 or more new connections

65% found Exhibitor time valuable

















EVENT EXPERIENCE - COMMENTS



What types of collaboration or partnerships do you envision developing from connections made at the convening?

- 1. Vendors and Programs
- 2. Workforce, Career or Executive Shareholders
- Developing and implementing new curriculum, programs or services





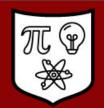




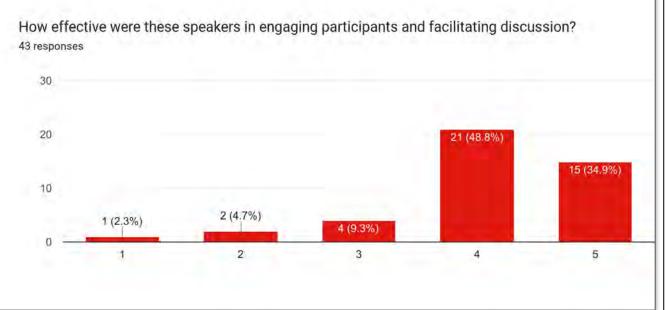








Speakers & Sessions





Top Comments:

Corey Samuel's inspirational personal story, and how LEGO can impact and engage child and adult learns

"Bridging Education and the Workforce" nicely summarized the day

The Henry Ford (Innovation Atlas)



All three PM breakout sessions















Speakers & Sessions



Topic Ideas for next year:

- More student involvement
- STEM lesson planning
- Success stories
- Opportunities for internships
- More career pathway discussion
- More exposure to more STEM subjects (ie life science, CS careers)
- More time for collaboration
- More breakout sessions

Next year, NSE may want to consider tracks for 'teachers' and 'EDU admin/workforce'

















Speakers & Sessions



Biggest takeaways

- More awareness of the opportunities and resources available
- The opportunity to network and begin collaborating
- Ensuring STEM opportunities are available to ALL students







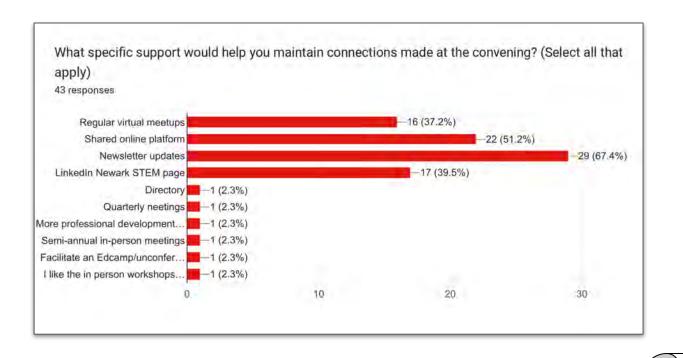








How can Newark STEM Support Shareholders?





Action items:

- Newsletters
- Shared Online Platform
- LinkedIn STEM page updates
- Regular Virtual Meetups

Some interest in regular in-person meet ups



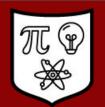




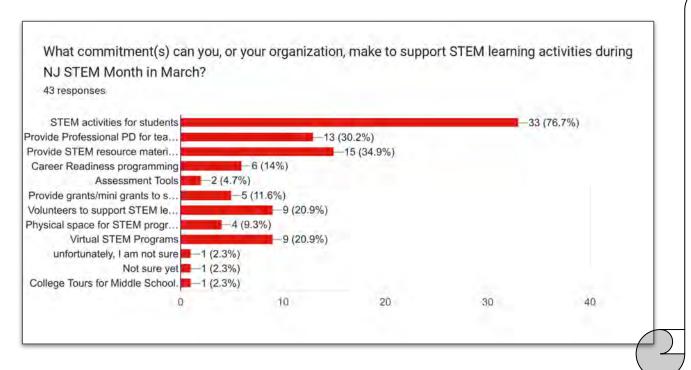








NJ STEM Month Commitments





Action items:

- Outreach to individuals on these commitments
- Create an intake form for STEM events, similar to NJSPN intake forms











