## Conference Program

**Plenary Sessions Location:** Atrium Amphitheater. 9.00 am – 12:50 pm  
*Chair (9:30-10:30 am):* Roman Kezerashvili  
*Chair (10:50 am-12:50 pm):* Stephen Soiffer

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30-9:00 am</td>
<td>Registration</td>
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<tr>
<td>9-9:30 am</td>
<td>Welcoming Remarks</td>
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</table>
| 9:30-10:00 am   | *Interactions Between the Art & Science of Physics Learning and Teaching*  
                  | Dean Zollman  
                  | Kansas University                                                                          |
| 10:00-10:30 am  | *What Has Happened To Geometry, Why Should We Care, and Some Suggestions About What To Do About It*  
                  | Richard Askey  
                  | University of Wisconsin-Madison                                                            |
| 10:30-10:50 am  | Coffee Break                                                                              |
| 10:50-11:20 am  | *The Role and Best Practices in Physics Demonstrations*  
                  | David Maiullo, Rutgers University  
                  | Samuel Sampere, Syracuse University                                                       |
| 11:20-11:50 pm  | *Consumer Communications and Networking: Riding the Waves of Disruptive Technologies*  
                  | Alexander D. Gelman  
                  | CTO, NETovations Group                                                                     |
| 11:50-12:20 pm  | *Using Models to Teach and Learn Engineering*  
                  | Slobodan Urdarevik  
                  | Western Michigan University                                                                |
| 12:20-12:50 pm  | *Learning Communities in the STEM Disciplines*  
                  | Estela Rojas Elgueta  
                  | New York City College of Technology CUNY                                                   |

**Lunch** 12:50 - 2:00 pm
# First Parallel Sessions

**STEM Education**  
**Location:** Room N-923. 2.00 pm – 3:30 pm  
**Chair:** Daria Bouadana

<table>
<thead>
<tr>
<th>Time</th>
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| 2-2:30 pm     | **Supporting Women Majoring in the Science, Technology, Engineering and Mathematics Disciplines**  
Janet Liou-Mark  
New York City College of Technology CUNY |
| 2:30-2:50 pm  | **Math + Science + Leadership (MSL)**  
Adrienne Ione, Orlando Baiocchi, Kim Davenport and Larry Wear  
University of Washington Tacoma |
| 2:50-3:10 pm  | **Project Esteem**  
Theresa Vecchiarelli and Nicole Simon  
Nassau Community College |
| 3:10-3:30 pm  | **E-Portfolio Uses In College**  
Daniela Viviana Vladutescu  
New York City College of Technology CUNY |

**Engineering**  
**Location:** Room N-922A. 2.00 pm – 3:30 pm  
**Chair:** Candido Cabo

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| 2-2:30 pm     | **Integrating Research into Undergraduate Engineering-Technology Courses**  
Djafar K. Mynbaev  
New York City College of Technology CUNY |
| 2:30-2:50 pm  | **An Integrated Project-Based Course in Mathematics and EngineeringTechnology**  
Asad Yousuf, Hyounkyun Oh and Mohamad Mustafa  
Savannah State University |
| 2:50-3:10 pm  | **Developing the Core Course Modules in Electrical and Telecommunications Engineering Program**  
Sunghoon Jang and Kenneth Markowitz  
New York City College of Technology CUNY |
| 3:10-3:30 pm  | **A Multimedia Approach to Deliver Cryptography and Computer Security Concept**  
Xinzhou Wei and Aron Goykadosh  
New York City College of Technology CUNY |
### Mathematics

**Location:** Room N-922. 2:00 pm – 3:30 pm  
**Chair:** Urmi Ghosh-Dastidar

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| 2:20-2:50 pm | *My Online Mathematics Instructions at Savannah State University*  
Shinemin Lin  
Savannah State University                      |
| 2:50-3:10 pm | *Scientific and Technological Applications in Teaching Mathematics*  
Sreedevi Ande and Mangala Kothari  
LaGuardia Community College CUNY              |
| 3:10-3:30 pm | *Using Clinical Interviews with Low-Performing Students in Mathematics*  
Eric Fuchs, Bronx Community College CUNY  
Violeta Menil, Hostos Community College CUNY  |

### Physics

**Location:** Room N-823. 2:00 pm – 3:30 pm  
**Chair:** Justin Vazquez-Poritz

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| 2:20-2:50 pm | *Using Geometry to Bring Mathematics and Physics Closer*  
Joel Gersten  
City College of New York CUNY                     |
| 2:50-3:10 pm | *Using Clicker in Physics Lectures*  
Pengfei Li and Jonathan Lambright  
Savannah State University                          |
| 3:10-3:30 pm | *Astronomy as a STEM Course*  
Gregory Matloff  
New York City College of Technology CUNY           |

Coffee Break 3:30 – 4:00 pm
## Second Parallel Sessions

**STEM Education**  
*Location:* Room N-923. 4.00 pm – 5:10 pm  
*Chair: Janet Liou-Mark*

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<tr>
<th>Time</th>
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| 4:00-4:30 pm  | Alternative Energy – Hands On STEM Activities  
Robert Edwards, Melanie Ford and Kathryn Holliday-Darr  
Penn State Erie The Behrend College |
| 4:30-4:50 pm  | STEM Education: Onerous Obstacles and Orthogonal Opportunities  
Reginald Blake  
New York City College of Technology CUNY |
| 4:50-5:10 pm  | City Polytechnic High School:  
An Interdisciplinary Approach to STEM Studies  
Gerarda M. Shields and Paul C. King  
New York City College of Technology CUNY |

**Mathematics**  
*Location:* Room N-922. 4.00 pm – 5:30 pm  
*Chair: Alexander Rozenblyum*

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| 4:00-4:30 pm  | Relational Study of the Effect of Four Weeks College Algebra Tutoring on MSIEP Participants’ College Algebra Test Score  
George G. Tessema and Alex Kalu  
Savannah State University |
| 4:30-4:50 pm  | Bio-surveillance in a Mathematics Classroom  
Urmi Ghosh-Dastidar  
New York City College of Technology CUNY |
| 4:50-5:10 pm  | Visualizing Steinmetz Solids with MatLab  
Javier Roldan Mckinley and Shenglan Yuan  
LaGuardia Community College CUNY |
| 5:10-5:30 pm  | Empowering Student Learning Using the Self-Regulated Learning Method  
Sandie Han and Grazyna Niezgoda  
New York City College of Technology CUNY |
Engineering  **Location:** Room N-922A. 4.00 pm – 5:30 pm  
**Chair:** Djafar Mynbaev

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| 4:00-4:30 pm| **Using Technology to Support STEM Teaching and Learning**  
Barry Gross  
City College of New York CUNY |
| 4:30-4:50 pm| **Integration of 3D Modeling, FEA and Rapid Prototyping in Engineering Technology Two-Year Programs**  
Gaffar Gailani, Sidi Berri and Malek Brahimi  
New York City College of Technology CUNY |
| 4:50-5:10 pm| **Community College as a Pathway to Engineering Education and Careers**  
Hendrick Delcham, Kamal Hajallie and Frank Wang  
LaGuardia Community College CUNY |
| 5:10-5:30 pm| **Using Topic Map to Create an E-Learning Environment: The Topic of OSI Model Map**  
Marcos Pinto  
New York City College of Technology CUNY |

**Conference Banquet** 6:00 pm

**Posters**  
**On display all day on 9th floor of Namm Hall**  
**Chair:** Boris Gelman

- **Service Learning Approach in a Basic Electronic Circuit Course**  
  Fei Wang  
  California State University, Long Beach

- **More Efficient and Interactive Class Using New Innovative Instructional Technology**  
  Chao Li  
  Florida A&M University

- **Toward an Enjoyable Experience of Learning Sciences**  
  Nelson Nunez-Rodriguez and Yoel Rodriguez  
  Hostos Community College CUNY

- **Peer-Assisted Workshops: A Method to Foster STEM Learning**  
  Mursheda Ahmed, AE Dreyfuss, Sharmir Findley, Travion Josephs, Lorenzo Lares,  
  William Lau, Janet Liou-Mark, Jamel Stovell and Jodi Ann Young  
  New York City College of Technology

- **Navigation by Mentoring and Leadership: Supporting Women Majoring in Mathematics**  
  Mursheda Ahmed, Janet Liou-Mark, Yvency Marcellus, Alma Cabral Reynoso, Lori Younge  
  New York City College of Technology CUNY
Organizing Committee

Roman Kezerashvili – chair
Candido Cabo
Boris Gelman
Sunghoon Jang
Hong Li
Janet Liou-Mark
Djafar Mynbaev
Alexander Rozenblyum
Stephen Soiffer
Justin Vazquez-Poritz
Viviana Vladutescu

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