



Community College

**LAGUARDIA THIRD INNOVATIVE PRACTICES IN DEVELOPMENTAL MATHEMATICS**

**March 22 & 23, 2018.**

**CLOSING THE ACHIEVEMENT GAP AND ACHIEVING EQUITY IN COMPLETION**

	Thursday 2:30 registration by the Little Theater, M Building.
	Thursday 3 pm, Little Theater: <b>Opening Remarks &amp; Keynote Speaker Dr. Michio Kaku, <i>the Next 20 years.</i></b>
8:30-9:15 am	Friday: Breakfast and Registration. M building Skylight Area (By the Little Theater, M building)
9:15-9:30am	Vice President Arcario Welcome Remarks- Little Theater.
9:30 –10:40 Little Theater	<b>Keynote Speaker Dr. Tara Parker: <i>Rethinking Developmental Education for Racial Justice and Equity.</i></b>
10:40-10:55	Coffee Break, Skylight Area.

**Concurrent Sessions I from 10:55 am to 12:35 pm**

<b>Rooms</b>	<b>M 136</b>	<b>M 137</b>	<b>M 138</b>	<b>M 135</b>
10:55-11:25	Using Hawks Software to Improve Students' Outcome  Inna Tokar (City College and Fashion Institute of Technology)	Aligning Elementary Algebra with the Quantitative Needs of Students in an Introductory Nutrition Course  Jonathan Cornick and Lana Zinger (Queensborough Community College)	Intervention in Remedial Mathematics  Alioune Koule, Nana Osei Bonsu, Hassan El Houari, and Mangala Kothari (LaGuardia Community College)	Teaching Strategies Benefitting Remedial and Non-Remedial Students  Salvatore Sommella (LaGuardia Community College)

<p>11:30-12:00pm</p>	<p>Various Use of Test-Generator Software in Developmental Mathematics Courses</p> <p>Tanvir Prince (Hostos Community College)</p>	<p>An Interdisciplinary Approach to Teaching Financial Literacy and Quantitative Reasoning Skills</p> <p>Marla Sole (Guttman Community College)</p>	<p>Supplemental Instruction at LaGuardia Community College: 25 years of Service to LaGuardia's Students</p> <p>Reem Jafar, Angela Cornelius, Andi Toce, Joyce Zaritsky, Anastacia Pal, and Joseph Evering (LaGuardia Community College)</p> <p>Joint with</p> <p>Three CUNY Community Colleges Discuss Supplemental Instruction Johannes Familton (Borough of Manhattan Community College)</p>	<p>Faculty and Student Experiences Across Reformed Developmental Course Models in Three CUNY Community Colleges</p> <p>Maggie Fay (CUNY Graduate Center)</p>
<p>12:05 – 12:35</p>	<p>Online OERs at LaGuardia Community College</p> <p>Jeanne Funk, Alioune Khoule, Abderrazak Belkharraz, and Khalid Kassou (LaGuardia Community College)</p>	<p>Contextualization of College Algebra with Economics</p> <p>Glenn Henshaw, Tao Chen, Solomon Kone, and Choon Shan Lai (LaGuardia Community College)</p>	<p>Three CUNY Community Colleges Expand Accelerated Learning and Alternative Paths in Quantitative Courses</p> <p>Johannes Familton, (BMCC), Marla Sole (Guttman), and A J Stachelek (Hostos)</p>	<p>Adjunct Voices in Curriculum Innovations</p> <p>Leopold Momplaisir, and Steven Cosares (LaGuardia Community College)</p>
<p>12:40-1:25</p>	<p>Lunch Break, Pool Side Café.</p>			

## Concurrent Sessions II from 1:30pm to 3:10 pm

Rooms	M 136	M 137	M 138
1:30-2:00	<p style="text-align: center;">Enabling STEM students to Enroll Early in Calculus</p> <p style="text-align: center;">Lidia Gonzalez and Nawrin Fariha (York College)</p>	<p style="text-align: center;">CUNY Start: Helping Students Transition to College</p> <p style="text-align: center;">Gregory Fein, Kevin Winkler, and Hem Vyas (CUNY Start)</p>	<p style="text-align: center;">Cracking the Remedial Math Nut</p> <p style="text-align: center;">Joseph Fera and Pamela Hinden (Lehman College)</p>
2:05-2:35	<p style="text-align: center;">Creative Approach in Teaching Highly Motivated and Success- Oriented Engineering Students</p> <p style="text-align: center;">Malgorzata Marciniak (LaGuardia Community College)</p>	<p style="text-align: center;">Using Improvement Science to enhance out-of-class Engagement in Statway</p> <p style="text-align: center;">Milena Cuellar and Steven Cosares (LaGuardia Community College)</p>	<p style="text-align: center;">Application of a Flipped Classroom Model: Using XYZ eTextbook, Co-Teaching and Blackboard</p> <p style="text-align: center;">Matthew Meangru (Pace University), Yu Gu (Teacher College, Columbia University, and Valeriya Demydovych (Pace University)</p>
2:40- 3:10	<p style="text-align: center;">Enhanced College Algebra Course</p> <p style="text-align: center;">Tatyana Khodorovskiy (Hunter College)</p>	<p style="text-align: center;">Mainstreaming Algebra Students to Accelerate Progression</p> <p style="text-align: center;">Karan Puri and Danielle Cifone (Queensborough Community College)</p>	<p style="text-align: center;">Developing co-requisite courses: Intermediate Algebra and Precalulus</p> <p style="text-align: center;">Jae Ki Lee, Liana Erstenyuk, Hong Yuan, Susan Licwinko, and Mathew Meangru (Borough of Manhattan Community College)</p>
3:15-3:25	Coffee Break Skylight Area		
3:30-4:30 Little Theater.	<b>FishBowl: Distinguished Panelists, Drs. Andrew Hacker and Edward Rubio.</b>		
4:30-5:00 pm	Celebration, M Building Skylight Area.		

## CONFERENCE OVERVIEW

### CLOSING THE ACHIEVEMENT GAP AND ACHIEVING EQUITY IN COMPLETION

LaGuardia Community College is excited to host the Third Innovative Practices in Developmental Mathematics Conference.

The aim of this conference is to bring together experts and practitioners in the field of developmental mathematics to discuss best practices that address students' needs holistically.

This year's conference focuses on diversity and equity, and how to close the achievement gap. One of our Keynote Speakers, Dr. Tara Parker, will discuss why it is important to elucidate the role of race and ethnicity in developmental education when designing curricula and pedagogical strategies. Our Distinguished Guest, Dr. Andrew Hacker, will engage us in understanding students' algebra needs and how that might determine equity in completion. Distinguished Professor Michio Kaku will help us rethink our approaches to reforms for "the next 20 years."

As you go through the program, you will see that the talks cover a wide range of topics from co-requisite reforms to contextualizing the curriculum, to the use of Open Educational Resources, to the role of Supplemental Instruction in boosting students' success in developmental mathematics and beyond.

This is the third year that LaGuardia is hosting the IPDM conference. We have tremendously benefited from all participants' perspectives for the past two years. We all share a common goal: providing all students pathways for success at minimal costs. We hope to continue the conversation about reforms surrounding developmental mathematics at CUNY and beyond.

Future conferences may focus on the impact of reforms at CUNY for the past five years and whether reforms helped achieve equity and student success.

**Dr. Michio Kaku** is a theoretical physicist, futurist, and popularizer of science; he is professor of theoretical physics at the City College of New York and the CUNY Graduate Center. Kaku has written several books about physics and related topics, has made frequent appearances on radio, television and film, and writes online blogs and articles. He has written three New York Times best sellers: *Physics of the Impossible* (2008), *Physics of the Future* (2011), and *The Future of the Mind* (2014). Kaku has hosted TV specials for the BBC, the Discovery Channel, the History Channel and the Science Channel.

**Dr. Tara Parker:** Tara Parker's research focuses on higher education policy related to access and equity for historically underrepresented groups, particularly students of color. She is especially interested in the ways policies concerning remedial and/or developmental education inform and determine post-secondary opportunities and outcomes. She has authored journal articles, book chapters, and conference papers examining institutional responses to changes in higher education policy. In partnership with the Education Commission for the States, she is currently principal investigator of the Getting Past Go Project at UMass Boston. This national research project, funded by the Lumina Foundation for Education, seeks to leverage developmental education as a critical component of state efforts to increase college attainment rates. Prior to joining the faculty at the University of Massachusetts Boston, Parker was a research assistant for the Alliance for International Higher Education Policy Studies (AIHEPS), directed by Richard C. Richardson at New York University. The AIHEPS project, funded by the Ford Foundation, examined the impact of state and provincial policy on higher education performance (i.e., degree completion and college choice). Dr. Parker earned her PhD from the Steinhardt School of Education at New York University.

**Dr. Andrew Hacker** is a political scientist and public intellectual. He is currently Professor Emeritus in the Political Science Department at Queens College CUNY. He did his undergraduate work at Amherst College; this was followed by graduate work at Oxford University, the University of Michigan and Princeton University where he received his PhD degree. Hacker taught at Cornell before taking his current position at Queens. His most recent book *Higher Education?* was written in collaboration with his wife Claudia Dreifus, a New York Times science writer and Columbia University professor. Dr. Hacker is a frequent contributor to the *New York Review of Books*. In his articles he has questioned whether mathematics learning is necessary, claiming that "Making mathematics mandatory prevents us from discovering and developing young talent." More recently, he published a book titled *The Math Myth: And Other STEM Delusions*. In it he expands the scrutiny of many widely held assumptions about the purpose of mathematics and its effect on our mind, as well as the purpose of STEM majors. He also proposes alternatives, including teaching facility with figures, quantitative reasoning, and understanding statistics.