PCMI Cross Program Activity – Tuesday, July 20, 2021

(all times are Mountain Daylight Time)

1:00-2:00pm, Plenary Speaker - Vernelle Noel (University of Florida)
The Mathematics of Wirebending
Craft practices, knowledges, and communities are disappearing. These practices carry with them histories and cultures of people, knowledges, and social ties to communities. One of these practices is wire-bending in the Trinidad Carnival, which began in the 1930s. Some reasons for its disappearance include dying practitioners, lacking pedagogy, changing practices, and technocentric developments. How might we employ mathematics in the restoration, remediation, and reconfiguration of this practice, knowledge, and community? In this talk, I share: (1) The Bailey-Derek Grammar, a mathematical description of this dying craft which has aided in documentation and transmission of this knowledge, (2) new tectonics for construction based on shape calculations and transformations, and (3) new artistic expressions and play resulting from the creation of experimental CAD software based on the culture of Carnival and wire-bending.

https://theias.zoom.us/j/82020740952?pwd=TE5kbFU0UjNXMFNMY0tzUStWYU4zZz09

2:30-3:30pm, Equity Panel, with Rochelle Gutierrez & members of the Rehumanizing Mathematics Workshop
Rochelle Gutierrez is a professor of education at the University of Illinois at Urbana–Champaign. Her main focus is changing the way in which mathematics is taught to the minority and the effects of race, class and language on teaching and learning.

https://theias.zoom.us/j/84283248394

Questions?? Please contact pcmi@ias.edu.