

Engineering Trans-disciplinary Outreach Program in the Arts (ETOPiA)

Educational Outreach Director: **Kathleen Stair**

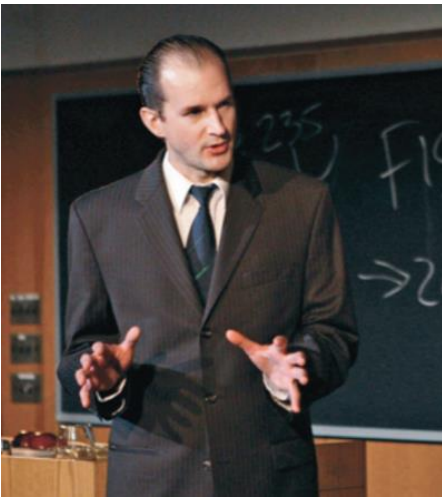


Sharing Science through the Arts



ETOPiA founded by MRSEC professor Matt Grayson in 2008.

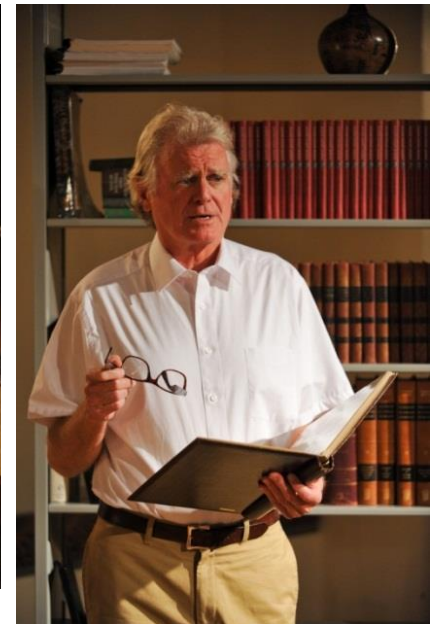
Uses science-themed plays to engage the community in discussions about the role of science in society.



2008: Copenhagen
(Bohr and Heisenberg)



2009: *Manya: A Living History of Marie Curie*



2010: QED
(Richard Feynman)



Performances



2011: *A Number*

Staged in the McCormick School of Engineering and Applied Sciences to inspire a cross-disciplinary dialogue about the role of science and technology in society.

Typically held over three weekends, with three additional day-time outreach performances offered to area schools.



2012: *The How and The Why*



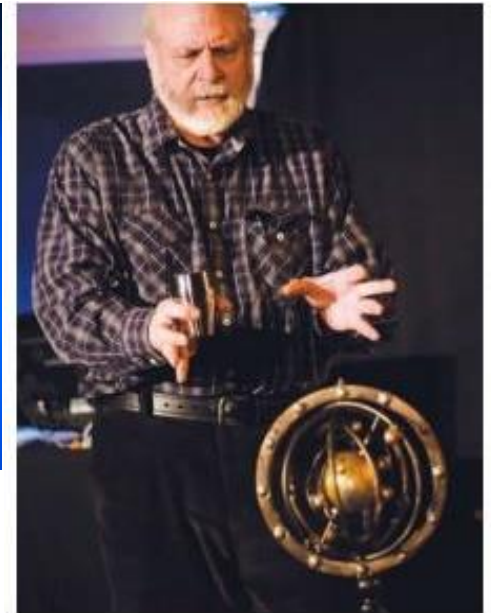
Outreach



2013: *The Agony and Ecstasy of Steve Jobs*



2014: *Grounded*



2015: *A Life of Galileo*

~1000 community members, middle school students, high school students, community college students, undergraduates, graduate students, staff, and faculty from the greater university neighborhood attended the play each year.



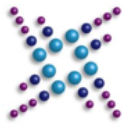
Post-show Discussion



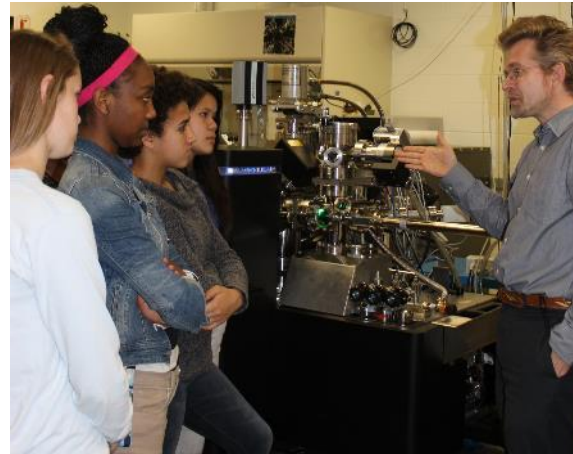
Panel discussions about the science behind the play.

Q & A with university faculty, students, and the professional actors about larger topics.





Day-time Outreach Performances





ETOPiA Road Show



- ***New Initiative*** – provide greater access to community
 - Performances requested by school, community center, etc.
 - Performance at local HS for former RET participant and colleagues
 - Integrated a performance into summer 2014 REU program
 - The Graduate School used performance in a recruiting tool for Under-represented minority college students and their advisors





Workshops to develop new work



New initiative - to develop original work.

First weekend: use scripts to perform a working version of the musical.

Interim: Certain scenes reworked using audience feedback.

Second weekend: a revised version is presented.





ETOPiA Stage Performances



2008 - Copenhagen

2009 - Manya: A Living History of Marie Curie

2010 – QED

2011 - A Number

2012 - The How and the Why

2013 - The Agony and Ecstasy of Steve Jobs

2014 - Grounded

2015 - A Life of Galileo

2016 - Mill Girls