USETDA Presents

3MT® Showcase

Monday, September 26, 2016
1:30 PM Muirfield Ballroom
Can you explain hundreds of hours of research in just 3 minutes?

• The Three Minute Thesis (3MT®) is a research communication competition developed by The University of Queensland. The exercise develops academic, presentation, and research communication skills and supports the development of research students' capacity to effectively explain their research in three minutes in a language appropriate to an intelligent but non-specialist audience.
Why should your students participate?

1. You can finally explain your research to your family and friends
2. When you defend your thesis you will be more confident when communicating your ideas
3. During a job search you will be able to easily help potential employers understand your research in language they understand
4. At conferences/networking events you can convey why your research is important to people not in your specific field
5. An expense-paid trip to Chicago in April for the winner
6. The prize money, of course...
How will the students be judged?

• Communication style: Was the topic and its significance communicated in language appropriate to an intelligent but non-specific audience?
• Comprehension: Did the presentation help the audience understand the research?
• Engagement: Did the presentation make the audience want to know more?
The rules

• A single, static PowerPoint slide is permitted. No slide transitions, animations or movement.
• No electronic media (sound/video files).
• No props (e.g. costumes, instruments, lab equipment, etc.)
• You get 3 minutes. If you go over 3 minutes, you lose!
• Decisions of judges are final. Period. No whining!
Sneaky HIV using mimicry to trick us! - By Roopa Comandur, Ohio State University

WANTED
HIV RNA

Security Check
(Human RNA Only)

Flight to Human Cell
It Helps to be Flexible: The Roles of Cognitive and Behavioral Flexibility in Physical Activity Among Young Adults - By Scout Kelly, Kent State University
**Efficiency:**

- **Current technology:** <40% efficiency
- **Magnetic refrigeration:** 60% efficiency

Reduces strain on power grid, less electricity needed

**Environment:**

- **No CFC/HFC gas**
- **Less fossil fuels burned (from efficiency)**
Less Water is More

Developments in fixture design:

- 1940: Hunter’s curve was developed
- 1980: ASHRAE modified Hunter’s curve
- 1990: Energy Policy Act
- ~2009: Estimating demand for “efficient” water supply
- ~2012:Further reductions in water usage

43% decrease in gpm
74% decrease in gpf

gpm⁺ = gallons per minute
gpf* = gallons per flush