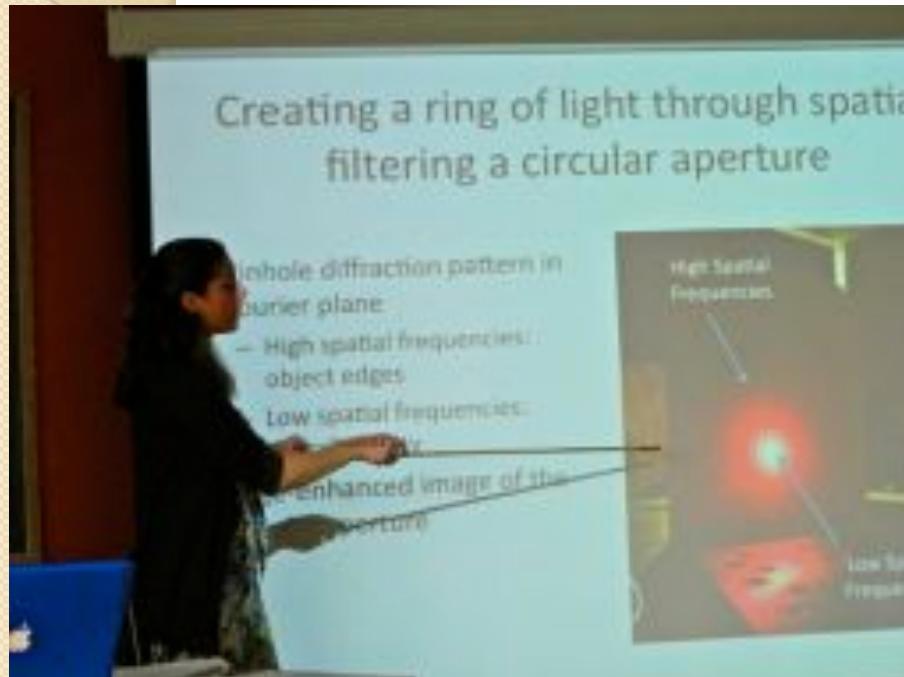


# My Personal Path to a Third Summer in the LTC



**Melia Bonomo**

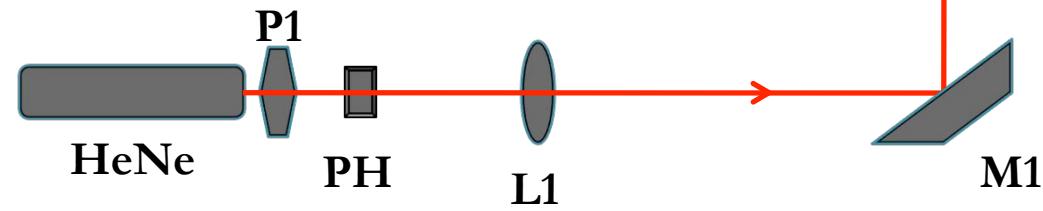
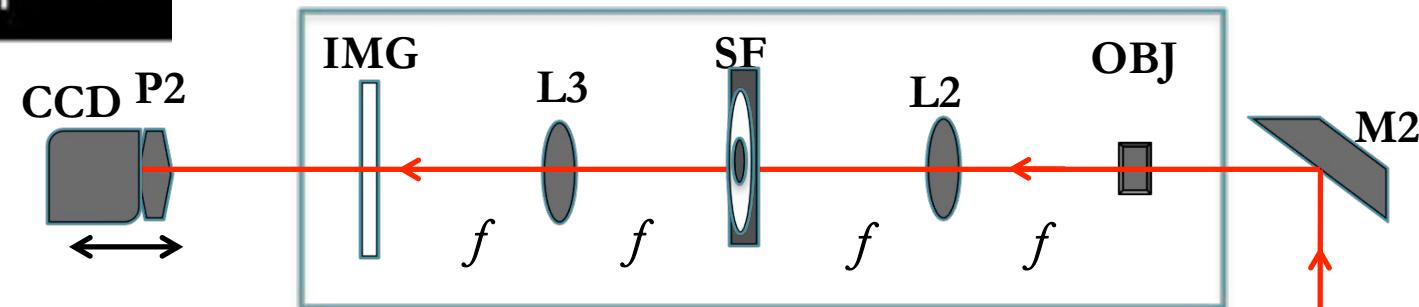
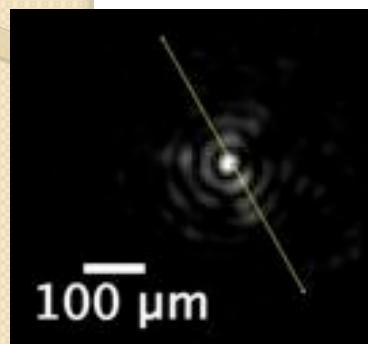
LTC NSF-REU Fellow Summer 2012  
Dickinson College '13  
LTC Mentor Summer 2013  
English Teaching Assistant 2013-2014  
LTC Mentor Summer 2014

*Welcome to the Laser Center*



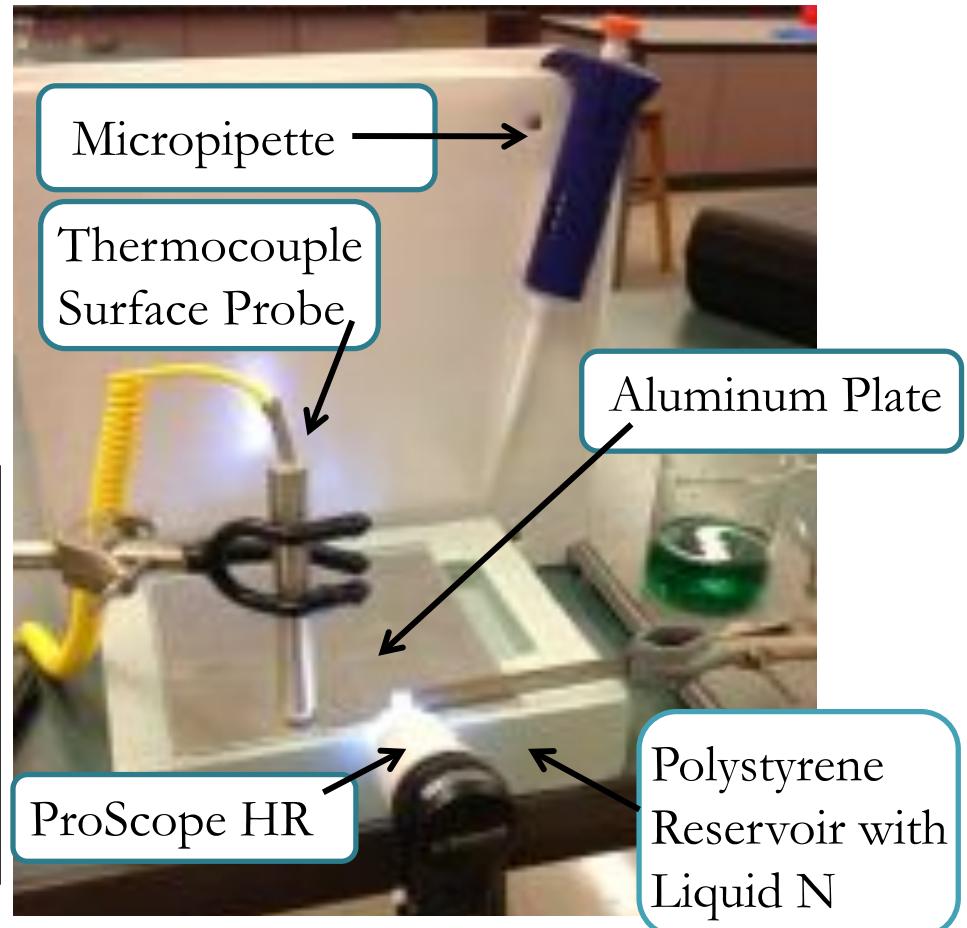
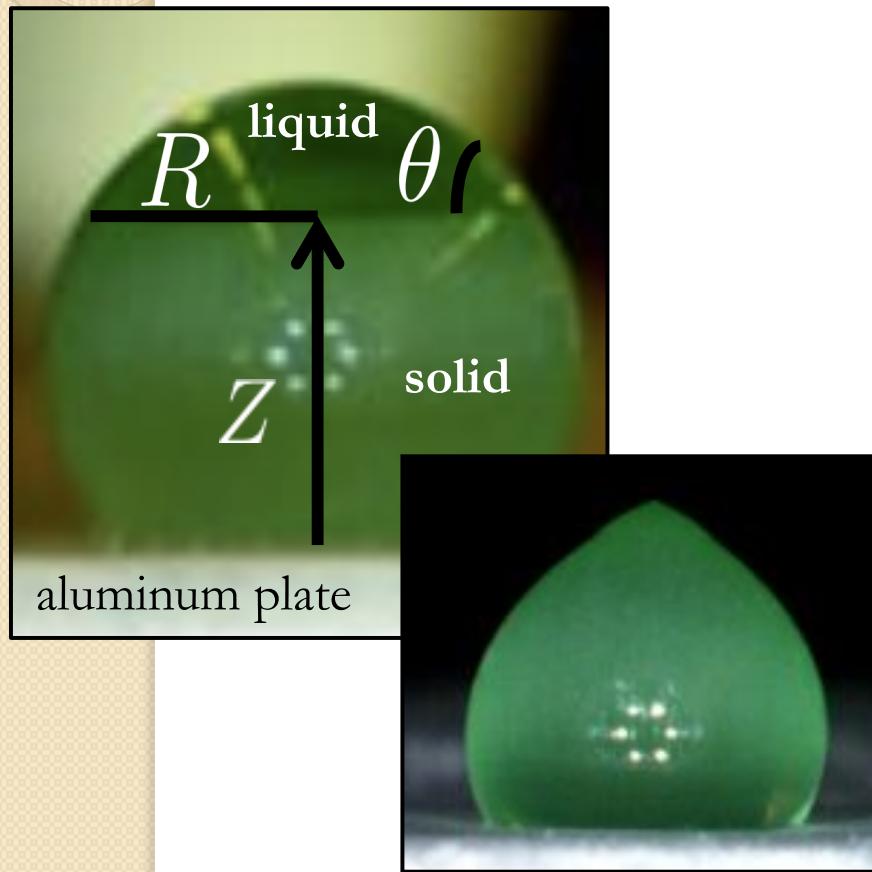
# LTC NSF-REU Summer 2012

*Creating Bessel beams with a 4-f spatial filter*



# Dickinson College 2012-2013

*Analyzing the singularities of freezing sessile water droplets*



Dickinson

[http://scholar.dickinson.edu/student\\_honors/4](http://scholar.dickinson.edu/student_honors/4)

# LTC Mentor Summer 2013



- Advised individual student projects
- Researched new devices
- Organized records of events and resources

<http://laser.physics.sunysb.edu/~melia/Summer2013.html>

# **English Teaching Assistant**

## **2013-2014**

### **S.I.T.E. Lombardy Internship**

**(study, intercultural training and experience)**



**I.I.S. LUCA PACIOLI**  
*Istituto di Istruzione Superiore*



Ministero dell'Istruzione,  
dell'Università e della Ricerca



**Ufficio  
Scolastico  
per la  
Lombardia**

# Crema, Italy

1. *Liceo Scientifico Leonardo Da Vinci*
2. *Istituto di Istruzione Superiore Galileo Galilei*

- Three types of schools:
  - *Liceo*
  - *Istituto tecnico*
  - *Istituto professionale*



# A couple of other differences...

- High school is 5 years, **British English** is mandatory
- Measurements at the market:
  - Fruits and Vegetables in “*chilo*” **kilograms**
  - Meat and cheese are measured in “*etto*” **hectograms**
- Ordering a coffee:
  - “*Caffé*”
  - “*Caffé americano*”
  - “*Caffé corretto*” ...

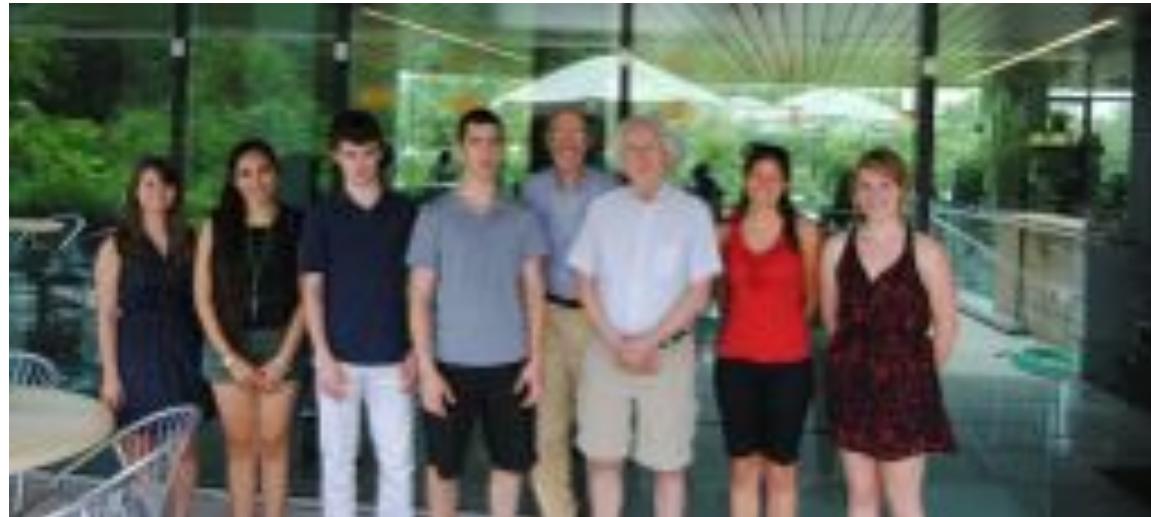




# Physics and Math Lessons

- The challenge: crafting interesting and interactive lessons tailored to English language learners
- Example topics:
  - Derivatives and Integrals
  - Gravitation
  - Electric Field
  - Matrices
  - Goniometry
  - Probability

# LTC Mentor Summer 2014



in progress...