## Available Resources from the Organization for Physics at Two-Year Colleges

Kris Lui \* OPTYCs Director – AAPT Chesapeake Section Meeting – 2025-Apr-05



# What is OPTYCs?

- To create and sustain a national community
- To resurrect past successful initiatives for professional development
- To develop new professional development programs
- NSF IUSE grant: 4 years & \$3M
- Started July 1, 2022
- Administered under AAPT



# Who is OPTYCs?

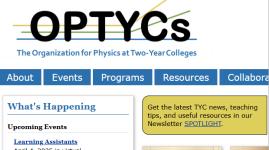
- 4 co-PIs + 9 Program Coordinators
- 5 Advisory Board Members
- External Evaluation Team (Goshen)

Some of the OPTYCs Team in Boston, MA. July 2024.



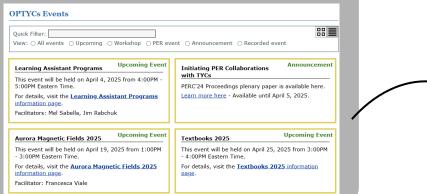


## Website Landing Page



April 4, 2025 in virtual Join us to learn about setting up and using LAs in your classes. TEAM UP Scholars Program -





## Newsletter



OPTYCs News

#### Upcoming events

- TEAM UP Scholars Program REU Opportunity in Illingis March 28, 2025 from 3:00pm 4:00pm EDT Are your students interested in doing physics or engineering related research? The Illingino TEAM-UP Scholars Program is designed specifically for TVC students. The program brings together a cohort of students for an intensive, paid in-person training July 2025, supporting students virtually with continued training and preparation throughout the academic year, with a research experience for Summer 2026. Join us to learn more about this opportunity.
- Learning Assistants: Brogarms April 4, 2025 from 4:00pm 5:00pm EDT Classes with Use have been shown to improve conceptual understanding and course pass rates. The number of LA programs at two-year colleges (TYCs) is growing. Join us in this interactive session to learn about LA programs, and hear from TYC faculty who have incorporated LAs into their teaching clockit. Facilitators: Jim Radchuk (Dakton Community College, IL), M4 Sabella (Chicago State University, IL)
- <u>Aurora Magnetic Fields 2025</u> April 19, 2025 from 1:00pm 3:00pm EDT This workshop will use aurora and associated data as a way to teach about magnetic fields. The auroral



### About OPTYCs

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Overview Vision Faculty Interests and Needs About Us Fun at AAPT Fellows

#### Faculty Interests and Needs: Poll Results

During 2022, an anonymous poll of TYC faculty who teach physics-related classes was done informally to find out what were the most pressing needs and interests of this group of people. As of Dec 1, 2022, there were 146 responses to the poll. We estimate approximately 1800 full-time, and 2000 part-time instructors teaching physics-related classes nationally. Below is a summary of the poll results.

#### Characteristics of TYC Instructors Teaching Physics-Related Courses

Full-Time/Part-Time Status: The majority of respondents (80.1%) were full-time at a two-year college, and at an institution that defines itself as such.

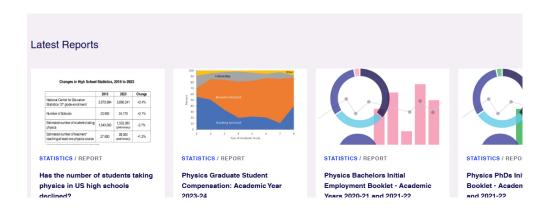
#### What type of Two-Year College (TYC) do you teach in?

~	75	89.7%			
360 (%	50				
Percentage (%)	25 -		4.8 %	4.1 %	1.4%
	₀ ⊥	Two Year College	Technical College	Branch campus of a university	Junior college

## Coming Soon

Guidelines for Physics Programs at Two-Year Colleges (2<sup>nd</sup> Ed.)

Guidelines for **Two-Year College** Physics Programs Survey results about TYC physics programs, courses, faculty and students (with AIP's Statistical Research)





## AAPT's ComPADRE





# We envision a future in which TYC physics faculty and students

TYC faculty are embraced within and empowered by an inclusive national physics community.

TYC students experience excellent evidence-based physics instruction which prepares them for their future endeavors.

## You do not need to be TYC-affiliated to participate



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