Panel: The Part-Time Teacher-in-Residence (TIR) Model

- A discussion about how to...
  - Identify
  - Recruit
  - Hire
  - Utilize &
  - Sustain

a part-time TIR.
Part-time TIR Discussion Panelists

Jon Anderson
Physics Teacher, Centennial High School, U of MN TIR (2007-09)

Kevin Dwyer
Physics Teacher, Cypress High School, CSULB TIR (2012-13)

Kurt Fletcher
Professor of Physics, SUNY Geneseo

B Lippitt
Seattle Pacific University VMT (2008-present)

Lane Seeley
Associate Professor of Physics, Seattle Pacific University
PhysTEC has identified a TIR as one of the key components of successful physics teacher preparation programs. Some sites have found that a part-time TIR better fits their needs.

Is a part-time TIR right for your site? This session will help answer that question and others you might have.
PhysTEC has identified many different roles that TIRs fill, including:

- Recruiter
- Advisor
- Instructor
- Course and curriculum developer
- LA/TA leader
- Mentor
- Professional Community Leader
- Program Coordinator
- Professional Development Provider
- Ambassador to School of Education
- Ambassador to School Districts
Source: Effective Practices in Preservice Physics Teacher Education: Recruitment, Retention, and Preparation
TIR Time Log Data

Time spent on various activities by TIRs

Source: Effective Practices in Preservice Physics Teacher Education: Recruitment, Retention, and Preparation
High School Students Studying Physics

Physics Enrollments in U.S. High Schools by Type of Course 1987 – 2013

Regular-C is “regular” physics taught using a conceptual text. Physics 1st was first included in the survey in 2009.

www.aip.org/statistics
Educational Background of High School Physics Teachers

Percent of Physics Teachers with a Physics Degree*

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<th>1993</th>
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* Teachers are counted only once, so a teacher with both a physics major and a physics education minor counts here only as a physics major. The hierarchy for counting is physics major, physics education major, physics minor, and physics education minor.

The error bars represent a 95% confidence interval for the proportion.

www.aip.org/statistics
Educational Background of PhysTEC Graduates

Physics content knowledge of PhysTEC Graduates

- PhysTEC graduates
- US physics teachers (Source: AIP)

Key:
- Physics major
- Physics education major
- Physics minor
- Physics education minor
- Physics major equivalent
- Physics minor equivalent
Panelists’ Site/TIR Description

- Each panelist will discuss/describe:
  - Their site
  - Their decision to hire a part-time TIR
  - The benefits of a part-time TIR
  - The challenges of hiring a part-time TIR
If you were responsible for hiring TIRs, what specific qualities would you look for and why?
Discussion Question #2

Are there some activities/jobs that could be better done by TIRs and other activities/jobs better done by university faculty? Are there activities/jobs perhaps done equally effectively by both TIRs and university faculty?
What challenges do you anticipate regarding the logistics (recruiting, working with the TIR’s school district, allocation of time/roles, etc.) of implementing a part-time TIR at your institution?
Discussion Question #4

How will the TIR be integrated into the life of the physics department?
There are a number of areas of knowledge and expertise that a TIR might contribute to the teacher preparation process. What are some of these areas and how would utilizing them improve your teacher preparation program?