

TIRs Working Outside the Box

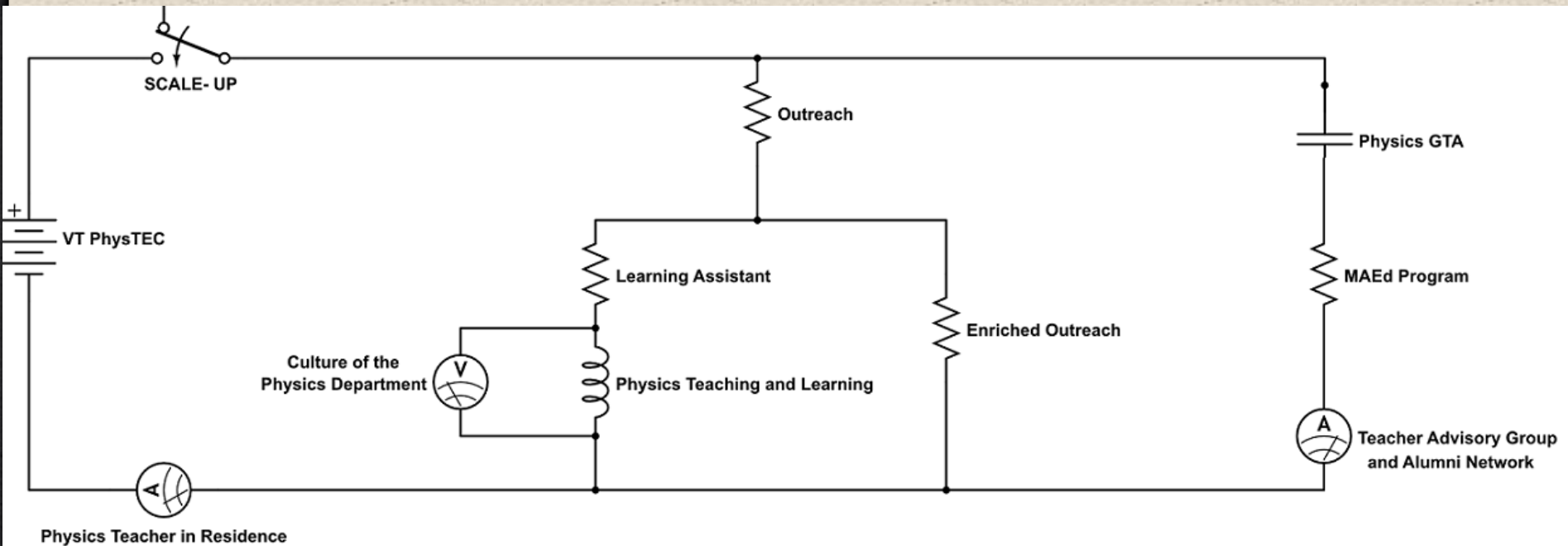
Alma Robinson
Virginia Tech



Physics
Teacher
Education

Coalition

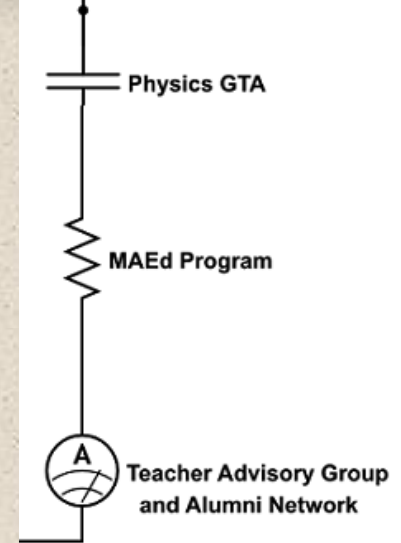
The Loops and Junctions of Preparing Our



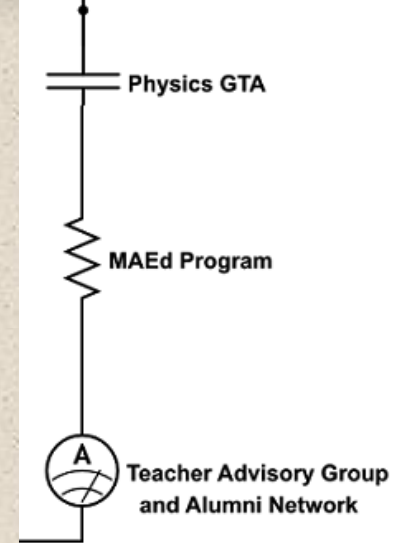
Future Physics Teachers

Our Boundary Conditions

- 0 Land-grant university in rural Southwest Virginia with large engineering program
- 0 MAEd Program – Secondary Science Certification with Physics Endorsement
- 0 Comprehensive PhysTEC site
- 0 Department Administration support



...and some out of the box solutions

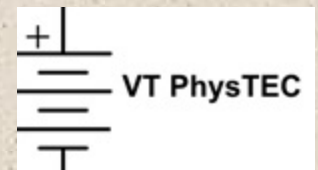


- Physics department GTA
- Recruiting across Physics and Engineering
- Alumni Network and local teacher group

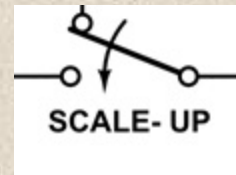
What about your school? Could you modify any of these ideas or are you already doing something similar?

- A) We can recruit students from our engineering program.
- B) Our students complete a MAEd program and our physics department might be able to get some GTA funding
- C) We could create an Alumni Network

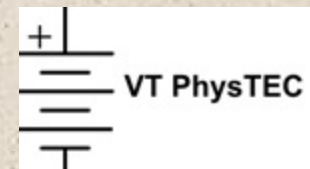
Anyone care to share their ideas?



TIRs and Reformed Teaching



- 0 SCALE-UP courses
- 0 Common Course for Introductory Physics
- 0 New Faculty introduced to active teaching strategies and LAs



TIRs at VT

Culture of the
Physics Department



Physics Teacher in Residence

- 0 Alumni as TIR
- 0 Cooperating Teacher TIR
- 0 Ideal TIR transition,
- 0 SPS and LOR
- 0 Brown Bag Lunches and Informal Teacher Consultant
- 0 Undergraduate Committee

- 0 Post PhysTEC funding:
 - 0 PhysTEC courses and LA program
 - 0 University support- Instructor: PhysTEC courses, Introductory Physics and FYE course.

Could you/are you implementing any of these ideas/programs with your TIR?

- A) Experienced Alumni who could be a TIR
- B) Teaching Brown Bag lunches
- C) TIR embedded in departmental conversations about teaching
- D) TIR involvement with SPS/student groups

Anyone care to share their ideas?

