OVERVIEW OF APW-IGA

• MULTI-DAY TEACHER ENGINEERING ACADEMY

• EXPANSION OF EXISTING STUDENT OUTREACH PROGRAMS

• EQUIPMENT LOAN PROGRAM
Teacher Academies
- 20 Teachers
- 135% Gain in Understanding CAP Operations

Direct Instruction
- 2,143 Students Instructed
- MSGW: Middle School Groundwater
- SWL: Sweetwater Festival

Water Quality Testing
- 601,053 gal/yr Projected Water Savings

5 Classrooms
- 180 Students

Students
- Instruct 1,407 Students
- 215 Students Performed Water Audits

Tucson AMA - IGA 2018
UNDERWATER ROBOTICS & ENGINEERING DESIGN ACADEMY
DURING THE ACADEMY 20 TEACHERS

• GAINED AN UNDERSTANDING OF HOW REMOTELY OPERATED VEHICLES (ROVS) ARE USED IN THE WATER INDUSTRY
• INVESTIGATED CENTRAL ARIZONA PROJECT (CAP) OPERATIONS
• ENGAGED IN THE ENGINEERING DESIGN, BUILDING AND TESTING OF UNDERWATER ROVS
• DEVELOPED AN UNDERSTANDING OF BUOYANCY, HYDRODYNAMICS, FORCES, ENERGY, ELECTRICAL CIRCUITRY, Wiring, solderING AND CONTROL SYSTEMS.

THEY ARE NOW IMPLEMENTING WITH THEIR STUDENTS!
“One of the best, if not the best professional development courses I have participated in. Not only will I be applying what I learned for my robotics club but I will also be improving some of my energy curriculum with it as well.”

“This was by far one of the BEST PD things I have ever taken in 11 years of teaching! THANK YOU! I want to come back next summer and help out!”
ARIZONA MATE REGIONAL COMPETITION

Saturday April 27, 2019
7:30 AM - 5:00 PM
University of Arizona
DIRECT STUDENT OUTREACH

8 SWWL Festivals
511 Students

3 Discovery Programs
195 Students

23 3rd grade GW
529 Students

16 – Middle School GW
438 Students

2 – Bathroom Audits
601,053 gal/day savings
MARANA WATER FESTIVAL

9 Schools
18 classes
470 Students
Water Sampling Equipment has been checked out for use in 5 classrooms with 180 students.
CONTACT INFORMATION

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