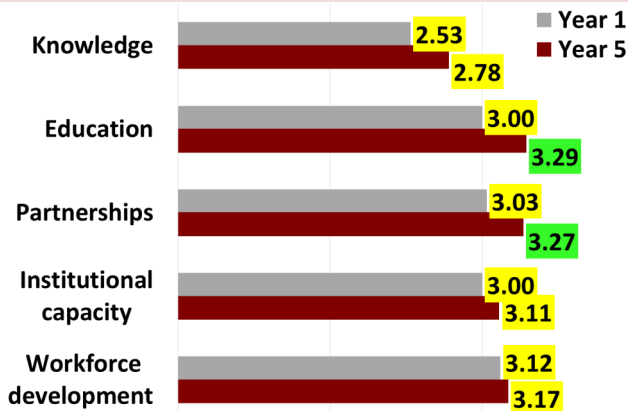


This newsletter presents summative findings from the WVU PIRE Project: 2010-15

Overview of the WVU NANOGrav-PIRE Project

Achievement of Project Goals

Participants rated PIRE project goal achievement each year (on a scale of 1-4). By year 5, **Knowledge, Education** and **Partnerships** had the greatest gains and participants felt the project *excelled in achieving* the **Education** and **Partnerships** goals.



Exceeded	3.26 – 4.00
Well	2.51 – 3.25
Somewhat	1.76 – 2.50
Not at all	1.00 – 1.75

PROJECT GOALS

- Goal 1: Knowledge
- Goal 2: Education
- Goal 3: Partnerships
- Goal 4: Institutional Capacity
- Goal 5: Workforce Development



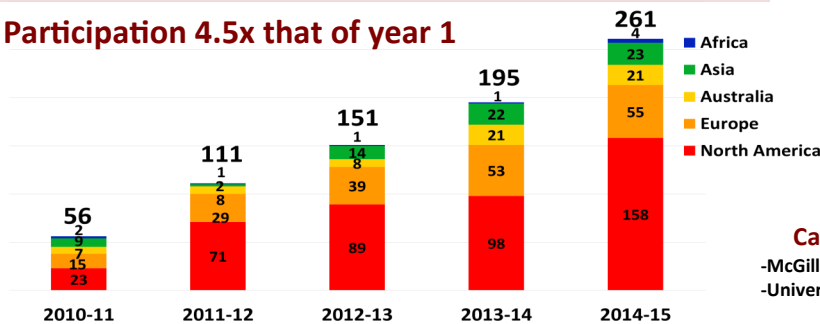
NANOGrav Institutions

NANOGrav, which began in 2007 with 9 institutions, now includes 18 institutions: 16 in the US and 2 in Canada.

PIRE Project Participation

Individual participation has greatly increased from year 1 to year 5 by the following: 2x in Africa, 2.5x in Asia, 3x in Australia, over 3.5x in Europe, and nearly 7x in North America.

Participation 4.5x that of year 1



US Institutions:

- Arecibo Observatory
- Cornell University
- Franklin & Marshall College
- Jet Propulsion Laboratory/Caltech
- Lafayette College
- Montana State University
- National Radio Astronomy Observatory
- Oberlin College
- Penn State University
- Universities Space Research Association
- University of Southern California
- University of Texas Rio Grande Valley
- University of Vermont
- University of Virginia
- University of Wisconsin
- West Virginia University

Canadian Institutions:

- McGill University
- University of British Columbia

Project Activities

Major PIRE project activities have included 6 international and 7 domestic science meetings, 6 international student workshops, and 24 science seminars during the five years of the project.

Activity	Started in:	# meetings	Reach/impact
Student Workshops	2010	6	123 participants
Research Abroad Experience	2010	N/A	29 students
International Science Meeting	2010	6	464 participants
Spring Science Meeting	2011	4	175 participants
Fall Science Meeting	2012	3	123 participants
Science Seminars	2012	24	63 participants

“Opportunities granted to me through this project have confirmed my decision to pursue a PhD in astrophysics directly after graduation.”

1,120 participants in activities

