



QUARKNET Broadening Participation

School-wide Student Demographics

Across centers considerable variation

- Urban, rural, and suburban schools
- Most often public schools; a few private schools
- Student enrollment size: varied small to large
- Well-balanced by gender of students
- Students eligible for free/reduced lunch
- Student ethnicity
- Link to more details: [slides](#), [table](#)

QUARKNET Broadening Participation

Partnering with Centers

- Staff partners with centers to provide talks or workshops at local or state physics or science teacher meetings
- Prairie APS, MN AAPT, CO/WY AAPT, NISE (IL), IN AAPT, TX AAPT
- Disseminate QN resources & invite teachers to join



QUARKNET Broadening Participation

Partnering with Centers

- Work with mentor & LT
- Create and distribute flyers to recruit new teachers
- Focused & sustained outreach
e.g., Irvine, BHSU/SURF
- Needs Assessment Workshops
See next slide...

The flyer is a vertical rectangular graphic with a blue and white color scheme. At the top left is a circular inset photo of a modern building. To its right is the QuarkNet logo, a stylized blue and red particle detector. Below the photo is the Syracuse University crest, a circular seal with a laurel wreath and the text 'SYRACUSE UNIVERSITY SUOS CULTORES SCIENTIA CORONAT FOUNDED AD 1870'. To the right of the crest is the NSF logo, a blue globe with gold stars. The text 'AUGUST 14-16, 2023' is prominently displayed in white on a blue background. Below this, a paragraph describes the program as a long-term teacher professional development program supported by the National Science Foundation. A section titled 'THE ITINERARY' provides details about the workshop's content. At the bottom, there is a registration link, a QR code, and contact information for Steven Blusk.

QuarkNet

AUGUST 14-16, 2023

QuarkNet is a long-term teacher professional development program supported by the National Science Foundation with the goal of bringing real research experience into high school science classrooms.

THE ITINERARY

The workshop will feature several classroom activities from QuarkNet's Data Activities Portfolio and will include discussions on how teachers can implement 21st Century physics concepts into their classrooms. Day 2 will focus on the work force and will be accompanied by an activity on the top quark mass.

3 DAYS OF PROFESSIONAL DEVELOPMENT

8:30am-3:30pm at Syracuse University's Physics Building
Attendees will receive a stipend of \$120 per day

REGISTER
[Click here](#)
or scan the QR Code

FOR MORE INFORMATION CONTACT
Steven sblusk@syr.edu



QUARKNET Broadening Participation

Physics Education Forum - Needs Assessment Workshop

- Partner with center to recruit teachers who serve large numbers of students underrepresented in physics; provide lunch, parking, stipends, etc.
- Listen to successes & challenges, learn how QN can better support these teachers and their students
- First PEF: December 16, 2023 @ Rice University

QUARKNET Broadening Participation

National Efforts

- American Association of Physics Teachers
 - Workshops, talks, posters, committees, outreach
- American Physical Society
 - Resulted in a new center
- Other opportunities:
 - ABQ Balloon Fiesta



QUARKNET Broadening Participation

Communication & Emerging Efforts

- Friday Flyer - Internal & External?
 - Currently ~400+ “clicks” two weeks out
- Social Media -
 - Opportunity - Reach new audience/collaborators
 - Concerns - Capacity/priorities, properly representing QN
 - Should we pilot in 2024?