QEM NSF INCLUDES
A National Summit to Survey and Stimulate Broadening Participation Research (BPR) at Historically Black and Tribal Colleges/Universities

ENHANCING FACULTY/STAFF STEM EDUCATION RESEARCH SKILLS

Leyte Winfield, Ph.D.
enhancing the talents, expanding the interests, improving the competence, and otherwise facilitating the professional and personal growth of faculty [or staff] members...

Institutional

Individual
OPERATIONALIZING STRATEGIES FOR SKILLS DEVELOPMENT

Operationalizing requires:

− Clear definitions and expectations for Broadening Participation Research
− Opportunities to expand the knowledge-base for faculty and administrators
− Strategies for building or sustaining infrastructure (Operations, Resources, and Support)
− Activities for building Networks and Community
− Time to do the work
INSTITUTIONAL ACTIVITIES THAT FOSTER SKILL DEVELOPMENT

- Faculty training and support programs
- Research Centers
- Recognition of Broadening Participation Research as scholarship in STEM disciplines
  - Promotion and awards that acknowledge Broadening Participation Research
  - Balanced teaching and research responsibilities
MY STORY
MOVING FROM THE BENCH TO BPR
MOTIVATION

- Faculty Institute
- Professional Meetings
ON BEING CURIOUS BUT CLUELESS
ON BEING CURIOUS BUT CLUELESS
ON BEING CURIOUS BUT CLUELESS

Conferences

Technical Training and Workshops

Mentoring

One-on-One Training

Collaboration

Informal Conversation
ORGANIZATIONS

Broad Interest

- AAC&U
- Associated Colleges of the South
- Council of Independent Colleges
- Gordon Research Conferences
- Science Education for New Civic Engagement (SENCER)
- QEM
- Understanding Interventions that Broaden Participation in Science Careers

Discipline Specific

- Chemistry Coalitions, Workshops and Community Scholars (cCWCS)
- American Chemical Society
- Biennial Conference on Chemical Education (BCCE)
WHAT I AM LEARNING – NEEDED SKILLS

- Understanding the broad landscape of BP
- Developing a hypothesis and supporting research questions
- Identifying framework
- Using appropriate methods for addressing research questions and collecting quantitative and qualitative data
- Analyzing data
- Visualizing data
- Reporting Outcomes
THANK YOU

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