Dear Educator,

We are excited to have you join us for the Physics of Atomic Nuclei program. Our program is participating in a research project conducted by Harvard University studying the many approaches employed in professional development for K-12 teachers of science. The goal of this project is to determine if there are common elements across programs that contribute to gains in teacher subject matter knowledge, knowledge of student misconceptions, and pedagogical knowledge, that then contribute to gains in student learning. Participation in the study includes answering a pre and post program survey related to your knowledge of science content and pedagogy, as well as your view of the impact of the PD experience after your participation.

These are online surveys that can be taken on a computer, tablet or a smart phone. Each survey should take approximately 15-20 minutes to complete. **The pre survey should be completed before the program begins if possible and the post survey completed as soon as possible after the completion of the program.**

Please use the following link to access the High School Physics Pre-Survey

<https://goo.gl/S8uuf6>

If for some reason clicking on the link directly does **NOT** open to a survey in Question Mark Corporation, please copy and paste the link into a browser.

Once connected, please use the following Username and Group to login to the on-line system.

Username = Start with the first three letters of your birth month, then the day of the month of your birthday, then the first letter of your last name.

Group = MSUPAN

After the login screen, you will be taken to the survey introduction. If the session is interrupted the survey can be resumed by logging back in. There will be a Help button at the top right hand corner of the screen that provides answers to frequently asked questions. You may also contact John Murray, On-line Test Associate at Harvard University by email [jemurray@cfa.harvard.edu](mailto:jemurray@cfa.harvard.edu" \t "_blank) or phone 617-495-5405.

Your participation in the study is strictly voluntary and is not required for successful completion of the program. However, we hope that you will participate, as your survey responses will provide information to contribute to a knowledge base that will help to refine existing and create new professional development programs for teachers.

If you choose to participate, you may change your mind and leave the study at any time. The data they collect will be kept strictly confidential. The researchers will not use your name or any information that would identify you personally or the PD program in any report, research publications, or conference presentations. Additional information about the research study can be found at the beginning of the survey or on the PDMOST website: [https://sites.google.com/a/cfa.harvard.edu/pdmost/.](https://sites.google.com/a/cfa.harvard.edu/pdmost/)

Thank you.