



AMERICAN ASSOCIATION OF PHYSICS TEACHERS
Arizona Section

Fall Meeting

Hosted by Phoenix Forge in collaboration with STEMteachersPHX

September 24, 2022

Business Meeting Minutes

1. Announcements *9:15 am*
 - a. Introductions
 - b. Spring Meeting
 - i. April 1, 2023 (contingent on venue availability)
 - ii. Tucson, AZ
 - iii. Exact location & theme: TBD
 - c. Treasurer's report: \$2743
 - i. \$300 annual expenses
 - ii. Expenses include website, door prizes, and meeting snacks (when in person).
 - iii. Additional \$500 this year for 501c3 application.
 - d. Arnold Meister Book Award
 - i. Students planning to study to study physics
 - ii. \$250 cash scholarship
 - iii. High school seniors and 2-year college students eligible
 - iv. Nominated and awarded at spring meeting
 - e. Officers election
 - i. Election via online ballot

General Meeting Minutes

1. *Phoenix Forge* by David Weaver & Staff *9:30 am*
 - a. Background
 - i. 2014-2015 people started discussing if MCCCDC should have a makerspace.
 - ii. Powered by Gateway Community College
 - b. Ben Bednarz (Operations Director)
 - i. Phase 1 and Phase 2 open
 - ii. Phase 3 (still to come) for artists, including glass work and ceramics
 - c. Tour & Questions
 - i. Membership is free for students, including dual enrollment students
 1. \$75/ month + \$25 initiation fee for general membership
 - ii. Orientation required
 - iii. Classes for specific tools (2-3 hr) \$50
 - iv. People bring own materials (except 3d filament, charged by gram), tools may be checked out for the day
2. Design Programs
 - a. Illustration for vinyl and laser cutting
 - i. Corel Draw or Illustrator
 - b. TinkerCad for beginning 3D Printing
 - i. Can handle circuits and electronics through Arduino
 - ii. 14+ age group. Can set up a classroom.



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3. Groups to work on tools including 3D printer, laser cutter, and vinyl cutter plus heat press
4. Lunch
5. *CXFEL* by David Weaver
 - a. Why? Because we know certain biological processes occur in theory, but have never observed them. Now, this tool enables us to see molecular processes. Also, expected not to cause a negative impact of organic compounds.
 - b. Could analyze artwork to find paintings hidden under paintings
 - c. Advanced medical imaging to diagnose internal damage sooner and with better clarity than existing technology.
 - d. Ongoing development. Beyond theory, but still working out construction.
 - e. May request David's 6 page log of experience working with CXFEL team.
6. Sign up for newsletter at the bottom of the News & Events page.
 - a. <https://phxforge.com/news-events/>
7. Discussion of applications for Phoenix Forge and how it can support teachers
8. Announcement of Officers (**newly elected*)
 - a. President: *Amy Johnson*
 - b. Vice President: (*vacant*)
 - c. Secretary: *Allison Van Liew*
 - d. Treasurer: *Michael Canham*
 - e. Section Representative: *Arlinda Hill*
 - f. 4-Year College Representative: (*vacant*)
 - g. 2-Year College Representative: *Jeff Hengesbach*
 - h. High School Representative: *Cindy Gambone**
9. Door prizes *1:40pm*
 - a. Phil Root

[Photos from Phoenix Forge](#)