### EVENT 3: PENNY BRIDGE

 (Dated 9/2021)

**OBJECTIVE:** To design and build a bridge constructed solely of pennies.

**RULES:**

1. The bridge is to be designed and constructed by the team on site.
2. The team will supply the pennies (US currency)
3. The bridge is to span a minimum distance of 7.0 centimeters with the entire span having a minimum height of 1.30 centimeters.
4. The bridge may not be attached to any surface.
5. The bridge is to be constructed solely of pennies, (USA legal currency), that are supplied by the team.
6. The pennies may not be fastened together by any means, i.e., adhesives, tape, solder or hardware.
7. The bridge must have a roadbed of contiguous pennies that can enable a penny to slide across the span.
8. The pennies may not be altered in anyway, i.e., cutting, notching or sanding.
9. A form may be used to hold the structure together during the construction process
10. Pennies may be removed during the construction process.

COMPETITION AND SCORING:

1. The competition area may either be an all-purpose room cafeteria or a typical high school classroom containing tables or desks.
2. The team will have 20 minutes to construct their bridge.
3. Once the team has constructed their bridge, they will notify the judge(s) that they are ready for judging.
4. The bridge must be stable and be able to stand on its own while waiting for and during the time the bridge is judged.
5. During the judging process the height of the span will be measured, a test structure will be slid under the bridge and the number of pennies used to construct the bridge will be determined.
6. The test structure will be a 7.0-centimeter wide and 1.3-centimeter high rectangle that must be able to slide under and through the span of the bridge without touching any part of the bridge.
7. The bridge built with the smallest number of pennies wins.
8. In case of a tie, the bridge with the greatest height at the center of the span will win.

**SCORE =** (Number of pennies of winning bridge) X 100

 (Number of pennies of your bridge)

Testing procedures & scoring may need to be modified if the Olympics is held virtually.

*Updates to the rules and Forum discussion / questions with answers are available by going to the NJAAPT website:* ***njaapt.wildapricot.org*** *(top menu, “Events” and “Forum”).* *It is the team’s responsibility to periodically check in or inquire about changes and clarifications to the rules.*