**WVU Maker’s Competition: Registration Form**

*\*Registration form required for EACH entry*

*Sponsored by WVU Student Chapters of Material Advantage and Materials Research Society, the Department of Mechanical and Aerospace Engineering, and the Statler College of Engineering and Mineral Resources*

Name(s) (Last, First): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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 Contact Phone Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Contact Email Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Will you be using our Printing Services (Y or N): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Category Entering (Circle One):

 (1) Artistic

(2) Future Tech

(3) Mechanized: Launch-a-Ball

(4) Mechanized: Push-a-Block

*WVU MA/MRS holds the right to refuse to print any design deemed indecent or an improper representation of WVU as a whole. The use of premade designs from online sources is strictly prohibited. Any entrant found to be in violation of this will be disqualified from the competition.*

*Early Bird registration ends December 14, 2017. A design must be submitted with the Early Bird registration in order for the registration fee to be waived. Regular registration period ends January 23, 2017 at 5pm at a cost of $5 per submission. All entries must be submitted by 5:00 pm February 3, 2017. Registration forms can be emailed to* ***WVU.Materials@gmail.com*** ***or given to Jacob Cordonier.***

*Registration form and non-refundable fee (cash or check) can be given to Kande Brandt at Engineering Science Building room 813 or by mailing to:*

*MA/MRS Student Chapter, 395 Evansdale Dr. PO Box 6106, Engineering Science Building, West Virginia University, Morgantown, WV 26506*

Any checks must be made out to Material Advantage Student Chapter.

*\*Any questions? Contact WVU Material Advantage/Materials Research Society @* ***WVU.Materials@gmail.com*** ***& Check us out on Facebook:*** [***https://www.facebook.com/WVUMAMRS*** & ***statler.wvu.edu/~sabolsky/Makers.html***](https://www.facebook.com/WVUMAMRS%20%26%20statler.wvu.edu/~sabolsky/Makers.html)

*Signature(s):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Date:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**WVU Maker’s Competition – Rules and Regulations**

**Important Dates and Deadlines**

Early Bird Registration (Registration Fee is waived\*) Deadline: 12/14/16

Regular Registration Deadline: 1/23/17

Design Submission Deadline: 2/3/17

Competition Day: 2/24/17

\*In order to have the fee waived, the participant must submit their design along with their registration form before the deadline.

**Fees and Pricing**

A $5 Registration Fee will be collected for each design that is submitted. The only exception to the fee is for early entrants (see above). Participants may submit as many designs as they wish.

The MA/MRS club will offer use of their Ultimaker2+ 3D printer to participants at a cost of $0.20/cm3 of printed material. Participants are not required to use the club’s printing services. For participants that do decide to use the Ultimaker2+, please keep in the mind that the build volume of the printer is limited to 223 x 223 x 205 mm.

**Categories**

Participants will submit their entry to one of the four options listed below. All submitted designs should prominently feature 3D printing. That is to say, the majority of the design should be made using a 3D printer. Non-3D printed components (e.g., electric motors, batteries, gears, etc.) are allowed, but should not take up a significant portion of the full design.

***Artistic*** - Design something that is creative, visually appealing, thought-provoking, etc. Designs will be judged by popular vote.

***Future Tech*** – Designs should be themed to be an original thought or redesign of an object as if it were made in the year 2500. The designs do not necessarily have to contain moving parts, but they can if desired. Examples could include what a spaceship, coffee mug, office building, or car may look like if it were made in the future. Designs will be judged by popular vote.

***Mechanized*** – Designs submitted to the Mechanized categories must contain moving parts. Participants are welcome to use Arduinos, electric motors, batteries, wires connected to a separate, immobile power supply, etc., to complete their challenges. Designs submitted should fulfill one of two challenges, as selected by the participant:

***Launch-a-Ball*** - The design must project or throw a 1cm diameter 3D printed PLA ball at least 3 feet in distance (all travel must be in the air). Human interaction is limited to placing the ball in the system or mechanism and actuating movement. The design will be judged by distance the ball is thrown. Tiebreakers will be decided by weight of the entire system.

***Push-a-Block*** - The design must push a 3 x 3 x 3 cm 3D printed PLA block at least 3 feet in distance. Human interaction is limited to placement of the block in the design before the mechanism initiates. The design will be judged by the time required to move the block. Tiebreakers will be decided by weight of the entire system.

**Awards and Prizes**

Gift cards will be given out to the top three finishers in each category. The 1st place winners will also receive a year’s membership to their choice of either the Materials Research Society or the Material Advantage professional societies, paid for by the MA/MRS club.

First Place: $75 & Choice of 1-year membership to either the MA or MRS national chapters

 Second Place: $50

 Third Place: $25

**Notes**

1. Please email wvu.materials@gmail.com for any questions or comments you have.
2. These rules are not final and are subject to change at any time up until the day of the competition.
3. We reserve the right to refuse entry of any design to this competition for any reason at any time.