October 3, 2019

MEMORANDUM TO:

OIC, Office of the Asst. Schools Division Superintendent
Chief Education Supervisors, CID and SGOD
Secondary School Heads
Officers-in-Charge
Public and Private Schools

5th ANNUAL FIX AND FOCUS FORUM

Attached is DepEd NCR Advisory No. 203, s. 2019 dated September 17, 2019, re: inviting Junior and Senior High School students to participate to the 5th Annual Fix and Focus Forum on November 23, 2019, 8:00 AM-6:00 PM at David M. Consunji Theatre, Institute of Civil Engineering, University of the Philippines, Diliman, Quezon City, content of which is self-explanatory.

Participation of public and private schools shall be subject to the guidelines on the conduct of Co-Curricular and Extra-Curricular Off-Campus Activities stipulated in DepEd Order No. 66, s. 2017 entitled implementing Guidelines on the Conduct of Off-Campus Activities, and the No-Collection Policy as stated in Section 3 of Republic Act No. 5546, An Act Prohibiting the sale of Tickets and/or the Collection of Contribution for Whatever Project or Purpose from Students and Teachers of Public and Private Schools, Colleges and Universities (Ganzon Law).

This is issued for information purpose only and not an endorsement of the activity.

JOEL T. TORRECAMPO
Assistant Schools Division Superintendent
Officer-in-Charge
Office of the Schools Division Superintendent
UP Aggregates, Inc. (Aggre) is the premiere academic civil engineering organization of University of the Philippines (Diliman) which consistently produces competent engineers who cultivate holistic growth, foster camaraderie, uphold scholastic excellence and promote social responsibility.

The Forum will be held on November 23, 2019, 8:00 AM – 6:00 PM at David M. Consunji Theatre, Institute of Civil Engineering, University of the Philippines, Diliman, Quezon City.

Participation of public and private schools shall be subject to the guidelines on the conduct of Co-Curricular and Extra-Curricular Off-Campus Activities stipulated in DepEd Order 66, s. 2017 entitled Implementing Guidelines on the Conduct of Off-Campus Activities, and the No-Collection Policy as stated in Section 3 of Republic Act No. 5546, An Act Prohibiting the Sale of Tickets and/or the Collection of Contributions for Whatever Project or Purpose from Students and Teachers of Public and Private Schools, Colleges and Universities (Ganzon Law).

For more information, contact:

MAUREEN AIRA B. PAUNIL
Registrations Head
5th Annual Fix and Focus Forum
UP Aggregates, Inc.
Contact no.: 0918-5874899

"Work toward excellence... play to win!"
September 9, 2019
Mr. Wilfredo E. Cabral
Officer-in-Charge
Office of the Regional Director
Department of Education
National Capital Region
Quezon City

Sir:

Greetings!

UP Aggregates, Inc. (Aggre) is the premier academic civil engineering organization based at the University of the Philippines Diliman. Leading the way to academic excellence, Aggre has produced multitudes of bar exam toppers, graduates with Latin honors, and notable engineers. Most significantly, Aggre is an organization that champions holistic growth, camaraderie, and social responsibility.

In line with our advocacy to impart the ideals of the organization on community and nation-building, we are inviting Junior and Senior high school students to the 5th Annual Fix and Focus Forum. The theme of this year’s event is Impact: Advancing Engineering Solutions to Water and Earthquake Crises

1) To pinpoint issues that affect Filipinos in their daily living, and understand the underlying Civil Engineering concepts and perspectives that may help address them

2) To introduce Civil Engineering as a multidisciplinary course by provision of talks regarding Earthquake and Hydraulics and Water Resources Engineering, hence dismissing the popular misconception that Civil Engineering in essence (predominantly) is Construction Engineering.

3) To engage senior and junior high school students into meaningful discussions, workshops, and competition which as a whole designed to aid them in systemizing their thoughts, whether or not they are inclined in Civil Engineering as a career path.

The event will be held at the David M. Consunji Theater, Institute of Civil Engineering, University of the Philippines Diliman on November 23 from 8 AM to 5 PM. To further explain the details of the event, herewith is an event primer which contains the ff:

1. Event Description
2. Registration Manual
3. Tower Design Competition Mechanics
We are certain that your institution aligns with our advocacy -- expose students with the possible courses they may take up on college, while having to experience interactive discussions, immersive workshops and intensive competition. In line with this, we hereby request your good office to support the 5th Annual Fix and Focus Forum by issuance of a DepEd Advisory or a DepEd Memorandum.

We are looking forward to your positive response on this request. Should you have any questions, feel free to drop a message at fff.reg.upai@gmail.com or at 09185874899.

Respectfully Yours,

Maureen Aria B. Paunil
Registrations Head
5th Annual Fix and Focus Forum
UP Aggregates, Inc.

Allyza Calibuso
Overall Head
5th Annual Fix and Focus Forum
UP Aggregates, Inc.

Angelo Lemparas
President
UP Aggregates, Inc.
THE ORGANIZATION

The UP Aggregates, Inc. is a prestigious academic organization for civil engineering students duly recognized by the University of the Philippines Diliman. Established in 1985, the organization consistently produces competent engineers who cultivate holistic growth, foster camaraderie, uphold scholastic excellence, and promote social responsibility through service to the Institute, the College, the University, and the Country.
THE EVENT

Fix and focus forum is a one-day gathering of junior and senior high school students in the mega manila area to learn more about the academic course and profession of civil engineering and how it is utilized to solve relevant issues existing in the present society.

On its 5th year, FFF continues to engage high school students in civil engineering and its various fields. It serves as an avenue to promote social awareness and responsibility among students by discussing existing and pressing problems through an engineering perspective. FFF remains consistent in inspiring young minds to critically and creatively think of ways to make a difference in the society.

This 2019, the 5th annual fix and focus forum adopts the theme “Impact: Advancing Engineering Solutions to Water and Earthquake Crises” which is geared towards helping students better understand current issues in the Philippines by evaluating problems and providing solutions related to the aforementioned using engineering knowledge, and aid in the development of the nation.
SOME SCENES FROM THE 4TH ANNUAL FIX AND FOCUS FORUM
THE FORUM

Students are gathered to proactively listen and engage in discussions regarding the basic concepts and related topics in civil engineering and how to apply them in creating solutions to current social issues. Fix and Focus Forum provides the privilege of hearing firsthand experiences from professionals and students of civil engineering who are well-versed in their area of study, and ultimately ignite their passion in the field.

THE COMPETITION

The Fix and Focus Forum: Building Design Competition is a nationwide competition served to provide opportunities, experiences, and awareness for high school students about civil engineering fields, practices, and core principles.

The competition shall serve as an avenue to encourage high school students to think critically while providing opportunities that will instill the core principles of engineering.
REGISTRATION MANUAL

WHO CAN REGISTER?

Junior and Senior high school students are invited to join this year’s FFF. Senior high school students under the Science, Technology, Engineering, and Mathematics [STEM] strand are highly encouraged to participate.

Students may be registered per school, with at most two [2] accompanying mentors.

REGISTRATION DATES

Early Registration:
September 27 (Fri) to October 6, 2019 (Sun).

Regular Registration:
October 7 (Mon) to October 31, 2019 (Wed)

GENERAL REGISTRATION PROCEDURE

1. Complete the online registration form at tiny.cc/5thFFFReg. A confirmation message will be emailed within 2 days after online registration.

2. Secure slots through payment of registration fee and merchandise fee, if any. A confirmation message will be emailed within 2 days after the payment receipt has been emailed to fff.reg.upal@gmail.com

REGISTRATION FEE

Early Registration Fee
Regular Registration Fee
Php 200 / student
Php 250 / student

MERCHANDISE

Event Shirt
ID Lace
Php 200
Php 90
PAYMENT GUIDELINES

- Registration fee covers lunch and a certificate.
- Accompanying mentors are registered free of charge.
- Official receipts will be released on the day of the event.
- Refund of payments is not allowed.

Payment via Offline Bank Transfer
The participant/s must deposit their payment to the UP Aggregates, Inc. PNB bank account:

Bank Account Name: UP AGGREGATES INC.
Bank Account Number: 3937-0220-0022

The participant/s must send a scanned copy of the deposit slip via email with the following specifications:

Subject: [nameofSchool_5thFFF_Payment]

Body:

a. Registered Students:
   1. Surname, First name, Middle Initial

   Example:
   1. Rizal, Jose P.
   2. Brocken, Josephine L.

b. Purchased Merchandise:
   1. Item [Quantity_Size]

   Example:
   1. ID Lace [12_N/A]
   2. T-Shirt [5_Medium]
   3. T-Shirt [7_Small]
REGISTRATION MANUAL

c. Amount Deposited:
d. Transaction Number:
e. Date of Payment:

Attachment:
Scanned copy of deposit slip with filename: NameofSchool_5thFFF_Payment

Once the participant/s received a confirmation email from fff.req.upcari@gmail.com with subject School_5thFFF_Confirmed, they are now official participants of this year's 5th Annual Fix and Focus Forum.

Payments for Early Registration will only be recognized until October 13, 2019. Payments for Regular Registration will only be recognized until November 7, 2019.

EARLY BIRD PROMO!
ONLY UNTIL OCTOBER 6, 2019
COMPETITION MANUAL

ELIGIBILITY

The Fix and Focus Forum: Building Design Competition is open to all participating schools. The students are grouped according to their respective schools with each team having three (3) to five (5) members each. A school can have more than one (1) team depending on the number of its registered students.

Upon online registration at tiny.cc/5thFFFRep, schools shall specify the groupings of their students in the competition through filling out the given excel file.

A confirmation email will be sent to all participants of the competition.

PRIZES

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<table>
<thead>
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<tbody>
<tr>
<td>1st Place</td>
<td>7000 Php</td>
</tr>
<tr>
<td>2nd Place</td>
<td>5000 Php</td>
</tr>
<tr>
<td>3rd Place</td>
<td>3000 Php</td>
</tr>
</tbody>
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The ff. special awards will be given before the announcement of winners:

Best Structural Design

Most Economic Structure
COMPETITION MANUAL
GUIDELINES

I. OVERVIEW OF CONCEPTS

The students must be able to come up with their own design and assemble a building model using wooden sticks that will meet certain specifications that will be provided. Testing of the model will be done using compression forces using the universal testing machine (UTM).

<table>
<thead>
<tr>
<th>Definition of Terms</th>
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<tbody>
<tr>
<td><strong>Members</strong></td>
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<tr>
<td><strong>Connections</strong></td>
</tr>
<tr>
<td><strong>Load</strong></td>
</tr>
<tr>
<td><strong>Bracings</strong></td>
</tr>
</tbody>
</table>

II. SPECIFICATIONS

Only one (1) model must be submitted by each team. Materials to be used as members in the model (sticks) will be provided as well as cutters, rulers, glue gun and glue sticks.

Barbecue sticks will be the material used in the model, the sticks will be provided, and it is allowed to be cut crosswise or lengthwise on the student’s own discretion.

The glue to be used in connections will be provided. The glue may only be used at surfaces or joints that will connect separate members. Use of glue to cover surfaces of members away from connections will merit a deduction.

Application of paint, varnish or any kind of coating on member surfaces is not allowed.
COMPETITION MANUAL

Dimensions

The building must have a rectangular base with width and length (as well as the projection of any level onto the base) of 10-15 cm. The measurement is done from the outermost side of one stick to the outermost side of the other stick.

The building must have a height of 30 cm - 35 cm. The measurement will be done from the bottom of the lowest beam to the top of the highest beam and the two (2) floors must have equal heights.

The design of the first floor is in the discretion of the group except for the restriction that no multiple columns must be placed on every face of the model as shown below.

The structure must have exactly two (2) floors containing the base/1st floor, second floor and a roof.
Any form of bracing is allowed as long as there are two (2) bracings on each floor on opposite faces of the floor.

Restrictions

1. No curved members.
2. No two members must be joined along their length with the use of adhesives including the floor beams and bracings. Splicing of members is allowed but only up to a quarter of the length of the shorter spliced member.
3. Each column must only be made of one (1) stick. Aside from the columns on every corner of the model, no other column is allowed in the second floor.

Guidelines during the competition

1. Coaches are not allowed to go near their teams, an area will be provided for coaches inside the competition venue if they want to be inside the competition area.
2. Members of any team are not allowed to exit the competition area once the competition proper has started.
3. A fixed amount of sticks (40 sticks) will be initially provided, although teams are permitted to request for more sticks anytime within the competition proper. It is also important to note that a special award will also be given to the team that used the least amount of sticks (used for the structure and also the wasted pieces).
III. FAILURE

Failure of the model may be one of the following:

1. Breaking of any member
2. Detachment of any part connected by adhesives

IV. GRADING CRITERIA

The models will be judged based on the following rubric

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Efficiency</td>
<td>60%</td>
</tr>
<tr>
<td>Adherence to Technicality and Composition</td>
<td>20%</td>
</tr>
<tr>
<td>Economy</td>
<td>20%</td>
</tr>
</tbody>
</table>

Structural Efficiency

The structural efficiency of the model will be computed using the formula:

\[ ER = \frac{W_c}{W_m} \]

Where,

\( ER \) - computed efficiency ratio

\( W_c \) - weight carried by the structure at failure

\( W_m \) - weight of the model itself
COMPETITION MANUAL

Technicality and Composition

The mastery of techniques and procedures used in creating the models should be evident. It should be able to display harmony while utilizing the use of the materials. Also, the adherence to the specifications are considered.

Economical Use

<table>
<thead>
<tr>
<th>Sticks used</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than or equal to 30</td>
<td>20</td>
</tr>
<tr>
<td>31 to 40 pieces</td>
<td>Deduction of 0.5 per piece in excess of 30</td>
</tr>
<tr>
<td>Greater than 40</td>
<td>Further deduction of 1 point per piece in excess of 40</td>
</tr>
</tbody>
</table>

V. TESTING

The way of testing of $W_c$, or the weight carried by the structure, is through the use of Universal Testing Machine (UTM) in the Construction Lab of the Institute of Civil Engineering. Only the mentors/coaches will be present to witness the testing of the structures.

VI. AUTHORITY

The UP Aggregates, Inc. may opt to invalidate an entry in its sole and absolute discretion.

VII. WINNING ENTRIES

Winners will be announced on the same day of the competition on the date of the 5th Annual Fix and Focus Forum. Results shall be final and cannot be contested.
VIII. QUESTIONS

All inquiries about the competition shall be sent to fff.submissions.upai@gmail.com

All announcements and reminders are posted online through our Official Facebook Page: Fix and Focus Forum (www.facebook.com/AggreFFF)