

Fw: Announcing the 2023 Mathematical Modeling Competition (the MCM/ICM on Feb 16-20)

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To: Connor Shrader <connorshrader@Knights.ucf.edu>

Dear Connor,

Below is the announcement which will be out soon. Feel free to circulate.

Best,
Zhisheng

Subject: Announcing the 2023 Mathematical Modeling Competition (the MCM/ICM on Feb 16-20)

Dear Colleagues and Students:

The UCF Department of Mathematics is sponsoring our undergraduate students to participate in the 2023 Mathematical Contest in Modeling (MCM) and Interdisciplinary Contest in Modeling (ICM) on February 16-20, 2023. We will recruit, organize, and train students to participate in this competition (and cover the registration fees as well). If possible, please forward this to all undergraduate students who might be interested, as we need their contributions and expertise outside mathematics. Also, we strongly believe our students will benefit from this unique opportunity.

In the past few years there have been more than 20,000 teams participating in the MCM/ICM contests throughout the world. Our UCF teams often have been highly ranked, earning many Meritorious Awards and Honorable Mentions.

Students participate as team members rather than as individuals - creating an environment for peer learning and skill development. You could find more information such as contest history, registration, and rules at the website (a brief introduction below)
www.mcmcontest.com

During the competition, each team of 3 undergraduate (or high school students with UCF dual enrollment) students will work as a group on one of the modeling problems from the following 6 categories:

- MCM Problem A (continuous)
- MCM Problem B (discrete)
- MCM Problem C (data insights)
- ICM Problem D (operations research or network science)
- ICM Problem E (sustainability)
- ICM Problem F (policy)

You could view modeling problems from previous years via the webpage

<http://www.comap.com/undergraduate/contests/mcm/previous-contests.php>

This year the competition will start at 5pm on Thursday Feb 16 and end at 8pm on Monday Feb 20. Each team has about 4 days to understand/simplify the real-life problem, formulate appropriate mathematical models, perform model analysis and simulations, interpret their mathematical results etc. At the end, they need to submit their own solution paper, on which they will be judged.

Students who are interested could contact our faculty advisors (contacting information listed at the end) and/or fill in the online teamsheet via the following link

https://docs.google.com/spreadsheets/d/1rza0pABa5WLuwVXbct2_cc6gEYSqdmofHbxWV4p7wq8/edit?usp=sharing

We plan to hold several training sessions in the following two weeks. More informations on these will be posted on our team website

<https://sciences.ucf.edu/math/mcm>

Students are welcome to attend any of these training sessions even if they are not planning to participate in the competition this year.

Thanks and we look forward to welcoming you at the modeling competitions and training!

Best regards,

UCF MCM/ICM Faculty Advisors

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