**Teams (Student or Advisor) are now required to submit an electronic copy (summary sheet and solution) of their solution paper by email too** [**solutions@comap.com**](mailto:solutions@comap.com) **as a Word or PDF attachment. Your email MUST be received at COMAP by the submission deadline of 8:00 PM EST, February 9, 2015. Note you will not receive an auto response.**

**Subject line  
COMAP your control number   
Example: COMAP 11111**

[Click here to download a PDF of the complete contest instructions.](http://www.comap-math.com/mcm/Instructions.pdf)

[Click here to download a copy of the Summary Sheet in Microsoft Word format.](http://www.comap-math.com/mcm/2015Summary.doc)  
**\*Be sure to change the control number and problem selected before printing out the page. You must still login to the website and choose your problem.**

**Teams are free to choose between MCM Problem A, MCM Problem B, ICM Problem C or ICM Problem D.**

**COMAP Mirror Site: For more in:  
http://www.comap.com/undergraduate/contests/mcm/**

[**MCM: The Mathematical Contest in Modeling**](http://www.comap-math.com/mcm/index.html#mcm)  
[**ICM: The Interdisciplinary Contest in Modeling**](http://www.comap-math.com/mcm/index.html#icm)

**2015 Contest Problems**

**MCM PROBLEMS**

**PROBLEM A: Eradicating Ebola**

The world medical association has announced that their new medication could stop Ebola and cure patients whose disease is not advanced. Build a realistic, sensible, and useful model that considers not only the spread of the disease, the quantity of the medicine needed, possible feasible delivery systems, locations of delivery, speed of manufacturing of the vaccine or drug, but also any other critical factors your team considers necessary as part of the model to optimize the eradication of Ebola, or at least its current strain. In addition to your modeling approach for the contest, prepare a 1-2 page non-technical letter for the world medical association to use in their announcement.

**PROBLEM B: Searching for a lost plane**

Recall the lost Malaysian flight MH370. Build a generic mathematical model that could assist "searchers" in planning a useful search for a lost plane feared to have crashed in open water such as the Atlantic, Pacific, Indian, Southern, or Arctic Ocean while flying from Point A to Point B. Assume that there are no signals from the downed plane. Your model should recognize that there are many different types of planes for which we might be searching and that there are many different types of search planes, often using different electronics or sensors. Additionally, prepare a 1-2 page non-technical paper for the airlines to use in their press conferences concerning their plan for future searches.

**ICM PROBLEMS**

**PROBLEM C: Managing Human Capital in Organizations**

Click the title below to download a PDF of the 2015 ICM Problem C.

**Your ICM submission should consist of a 1 page Summary Sheet and your solution cannot exceed 20 pages for a maximum of 21 pages.**

[**Managing Human Capital in Organizations**](http://www.comap-math.com/mcm/ICM_2014.pdf)

**PROBLEM D: Is it sustainable?**

Click the title below to download a PDF of the 2015 ICM Problem D.

**Your ICM submission should consist of a 1 page Summary Sheet and your solution cannot exceed 20 pages for a maximum of 21 pages.**

[**Is it sustainable?**](http://www.comap-math.com/mcm/ICM_2014.pdf)

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