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SIMIODE A SYSTEMIC INITIATIVE FOR MODELING INVESTIGATIONS & OPPORTUNITIES WITH DIFFERENTIAL EQUATIONS

TEACHER VERSION

NAME OF SCENARIO

Full Author Name(s) - First and Last
Department Affiliation
School or Corporate Affiliation
Street Address of Affiliation
City ST Zip or Mail Code Country
Email Address

**** We use a double-blind referee system so DO NOT provide the above information in first submission ****

Abstract: Offer an abstract which describes what the students will do and learn, including technical descriptions of mathematics, area of application, and outcomes expected for the scenario. This should help the teacher decide if the material is suitable for a given class. This will appear in Teacher Version only.

Keywords: Enter all words that could be considered key, to include words as general as differential equations or as specific as kinetics. Keep this list to five words. These will serve as tags for colleagues to use in searching SIMIODE for location of material. The Editor may suggest/change/add/ delete some for more refinement as necessary. This will appear in the Teacher Version only.

Tags: Here you can enter a wider set of words which serve as tags (as do keywords) for searching in the SIMIODE web site. Keep this list to ten words. The Editor may suggest/change/add/delete some for more refinement as necessary.

STATEMENT

This is the STATEMENT of the scenario for the student, with pointers to data sets, supplementary files, videos, etc. for student consumption. It should have clear statements, instructions, hints, necessary materials and possible reference to original source material, but not to material which ``gives away'' a solution. E.g., if there is historical material cited then that should be given in a set of references [Hutchinson1978].

The convention in naming scenarios is found in Table 1.

Audience	Name	Comment
Student	x-y-NameScenario-StudentVersion	x-y- stands for topic or unit (x) and Number in that topic or unit (y). NameScenario is a short merged with no spaces two to four word descriptor extracted from the larger title. This will be provided at final acceptance by Editor.
Teacher	x-y-NameScenario-TeacherVersion	x-y- stands for topic or unit (x) and Number in that topic or unit (y).
Teacher	x-y-NameScenario-Mma-TeacherVersion	Here Mma is a three or four letter abbreviation, for software used; in this case Mathematica file, as an example of supplementary material. Others could include Map for Maple, MatL for MatLab, EXC for EXCEL, etc.

Table 1. This is the convention for naming scenarios. The topic or unit (x) will be assigned by the Editor as will the number (y) in that topic or unit.

This STATEMENT section should be the first section in the Teacher Version for completeness.

REFERENCES

[Hutchinson1978] Hutchinson, G. Evelyn. 1978. *Introduction to Population Ecology*. New Haven CT: Yale University Press.

COMMENTS

This section(s) is a set of COMMENTS about the scenario, for the teacher only and would be deleted from a Student Version. It might include a ``solution'' or a number of solution strategies. However, the main narrative should be about how to use the scenario in teaching, e.g., what are prerequisites, how long might one devote to it, what resources for students could be expected to be used, what issues which cause students difficult or ease should be expected to come up, discussion of technology use, pointers to other files, etc. This set of COMMENTS might have its own pointers to data sets, supplementary files, videos, etc. for student and teacher use, the material for students could be something the teacher might use with discretion. There could be an extended bibliography [Gause1934, Hutchinson1978a] for additional teacher resources, analyses, data, etc.

REFERENCES

[Gause1934] Gause, G.~F. 1971. *The Struggle for Existence*. New York: Dover Publications, Inc. First published in 1934 by The Williams & Wilkins Company and available completely on the world wide web at http://www.ggause.com/Contgau.htm . Accessed 31 March 2015.

[Hutchinson1978] Hutchinson, G. Evelyn. 1978. *Introduction to Population Ecology*. New Haven CT: Yale University Press.