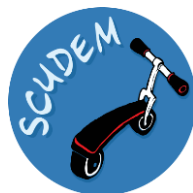


SCUDEM - SIMIODE Challenge Using Differential Equations Modeling



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SCUDEM - SIMIODE Challenge Using Differential Equations Modeling is an opportunity for three member student teams from around the world to build and present differential equations models in one of three areas (a) physics/engineering, (b) chemistry/life sciences, and (c) social sciences/humanities.

Students work on their model of choice from 23 October – 14 November 2021 and submit a ten-minute video for judging. Last year in SCUDEM V 2020 each team received on average 8 judges' reports with constructive feedback and also received one of three awards, Outstanding, Meritorious and Successful. The recognition of participation, the joy of working with others on modeling, and the feedback of judges make this a wonderful experience for students in high school and undergraduate curricula.

Teams and coaches can register as a unit or they can register individually and SIMIODE will assemble working teams with members from around the world in one team. This is a wonderful opportunity to work beyond borders and get to know colleagues from other regions and cultures. Registration fee is \$20USD/student and free in developing countries. Registration closes 22 October 2021.

Please see <https://qubeshub.org/community/groups/scudem> for complete description and information on the current SCUDEM VI 2021 and links to previous SCUDEM problem statements and student submissions, including video presentations from SCUDEM V 2020 Outstanding Award teams.

We are seeking Coaches to work with students assembled from around the world and Judges who we ask to view three of the ten-minute video submissions related to one of the three problems. Many judges enjoy the opportunity so much they view more than three videos.

SCUDEM is sponsored by SIMIODE - Systemic Initiative for Modeling Investigations and Opportunities with Differential Equations, a non-profit organization in the United States - <https://www.simiode.org>. SIMIODE offers FREE Open Education Resources in support of modeling to motivate teaching differential equations, a pivotal STEM course. SIMIODE provides FREE, hundreds of completely downloadable and customizable Modeling Scenarios and Potential Modeling Scenario Ideas in a rich Community of Practice.

In addition to SCUDEM outreach, SIMIODE offers (1) a very low-cost textbook, *Differential Equations: A Toolbox for Modeling the World*, which is receiving excellent reviews and reception <https://www.simiode.org/textbook> and (2) an annual EXPO International conference in February of each year <https://www.simiode.org/simiodexpo2021>. SIMIODE EXPO 2022 is planning a four day event, 10-13 February 2022. Join our community and share the experiences of teaching through modeling.