

**The Hope College-Howard Hughes Medical Institute
Faculty Development Grant for
Interdisciplinary Case Study Development**

Application Directions

Please return your application along with a brief (NSF 2-page format) curriculum vitae to Dr. Christopher C. Barney, Hope College-HHMI Program Co-Director, Department of Biology, Hope College, Holland, MI 49423 (barney@hope.edu) by the **15th of each Month**.

PLEASE WORD PROCESS YOUR APPLICATION, CLEARLY INDICATING THE HEADINGS BELOW. THE AWARD FOR CASE STUDY DEVELOPMENT IS \$2,500.

- 1. Principal Investigators (min. two faculty from separate departments)**
- 2. Title of proposed case study**
- 3. Course(s) in which interdisciplinary case study will be used**
- 4. Summary of proposed case study** (Example from "Goodbye Honey Buckets," <http://serc.carleton.edu/introgeo/icbl/examples/HoneyBucket/>. *Summary: Students will investigate arctic geology and hydrology as well as tundra ecology as they consider options for sewage treatment. Public safety, environmental impact, and issues of construction and engineering will be explored.*)
- 5. Learning goals for case study** (Example from "Goodbye Honey Buckets." *Learning Goals: 1) To learn how a sewage treatment plant works, 2) To develop awareness of roles microorganisms (including bacteria) have other than as agents of disease, 3) To appreciate the special challenges of municipal construction in arctic environments, 4) To suggest modifications to existing sewage treatment systems that can improve performance in arctic conditions, 5) To consider temperature effects on decomposition and drainage in arctic soils.*)
- 6. Projected timeline for the development and implementation of case study**

Summer_____ and/or Academic Year_____

(note: if academic year release time is part of the proposal [funded by this program or otherwise] a letter of support from the chairpersons of the affected departments is required)