

Professional Development for Minnesota Teachers of Science  
**FREE programs through Hamline University**  
Summer 2012



**Biotechnology/Microbiology for Teachers In the Classroom (BioTIC)**

July 30-August 3 & August 6-10, 2012, at Hamline University, St. Paul

The BioTIC Institute brings middle and high school biology teachers up-to-speed on the rapid advancements in biotech research, careers, applications and issues while providing inquiry modeling/practice and curriculum enrichment that support standards related to cell structure, disease, genetics and biotechnology. Four graduate credits, meals, stipend, and housing (for those outside the Metro area) provided.

Application and information at: <http://www.hamline.edu/education/cgee/biotic>



**WaterWorks!: A Drinking Water Institute for Educators**

August 6-8, 2012, St. Cloud Technical College, St. Cloud, MN

Enrich your water curriculum, investigate drinking water quality and chemistry, learn about inquiry-based models for your classroom and find resources within your community. This three-day, hands-on workshop allows grade 4-9 science teachers to come away with new teaching ideas and information from expert presenters about how safe, reliable drinking water is delivered to your community as well as drinking water issues facing Minnesota. Meals and resource binder provided. Choose between two graduate credits or stipend – both will require your attendance at a follow-up Saturday in fall 2012 (date to be determined by the group). Housing is not provided. Join the list of 250 teachers that have participated in WaterWorks! over the last 11 years.

Applications and information at: <http://www.hamline.edu/education/environmental/cgee/waterworks>

With questions on these programs, contact Lee Schmitt, [lschmitt@hamline.edu](mailto:lschmitt@hamline.edu) (651-523-2562)



## **Chem4All and Physics4All Summer Institutes for Teachers**

**Bringing science teachers together  
to review standards, concepts, strategies and resources  
for teaching Chemistry and Physics to a new demographic of students.**

Have you recently been asked to teach high school chemistry or physics? Feeling a little rusty? Concerned about teaching chemistry or physics to all students? Looking for new ideas, inquiry-based teaching approaches, some concept review, resources, and time to plan?

Hamline University announces **Chem4All** and **Physics4All** – summer 2012 professional development workshops for science teachers to actively gain new skills and knowledge for effectively teaching chemistry and physics to all students. Just as Minnesota school districts open multiple sections of chemistry, and others move to a Physics First approach to meet the new science graduation requirements for the class of 2015, Hamline University has received funding from the 3M Foundation to bring experienced and “newly-assigned” teachers together for a week of concept review, design of laboratory experiences, useful resources, effective teaching strategies, and curriculum planning – everything a “first-year” chemistry or physics teacher needs.

Join your colleagues at Hamline University this summer and get ready to teach chemistry or physics! No cost for teachers. Programs are funded by the 3M Foundation and include free room and board for non-metro teachers, free parking, lunch provided each day, resources, and 30 hours of CE credit. (Optional 2-credit course available, but not supported by the grant.) Two regional Saturday follow-up sessions during the 2012-13 school year will be available. Chem4All includes the option of co-teaching in your classroom with a master chemistry teacher.

**Chem4All Summer Institutes** (choose one): July 9-13 OR July 23-27, 2012

**Physics4All Summer Institute:** August 6-10, 2012

Complete the Chem4All or Physics4All application online at:

[www.hamline.edu/cgee/chemphy4all](http://www.hamline.edu/cgee/chemphy4all)

With questions, contact Lee Schmitt [lschmitt@hamline.edu](mailto:lschmitt@hamline.edu) (651) 523-2562

Chem4All and Physics4All are funded by the 3M Foundation.  
Chem4All and Physics4All are not licensure programs.