

What Teachers Say About CALM

"One of the best things about CALM is instant student feedback."

– Neil Rapp

"I have observed many good discussions among students on "how" to do a particular problem... students are performing better on assessments... Full support of this ingenious system is a necessity."

– Brian White

"I like CALM for many reasons. One of the biggest is the discussion it generates in class."

– Kenneth Coy

"I love the program and my students love it. I was amazed to see how responsive and motivated they have become since the program was first introduced to them."

– Ruby Sing

"Allows for more one on one instruction by the teacher."

– Donna Chaney

"This is the second year of using the CALM program and I must admit that it is even better the second year."

– Richard Emery

"Facilities student/teacher communication."

– Myron Harden

"I marvel at how seriously the students take CALM assignments. I could give them the same assignment on paper and many of them simply would not do it."

– Jennifer Hudspeth

"CALM has been and continues to be a tremendous asset for my students. Topics covered in CALM are topics mastered."

– David Hole

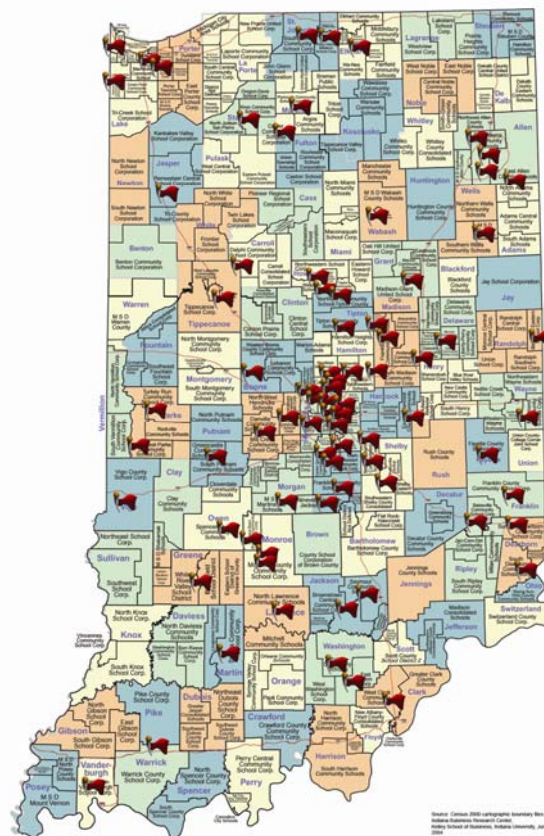
"...excellent resource tool for my students, who eagerly work on complex problems..."

– Paulette Berger

CALM is a novel web based tool for enhancing problem solving skills of students through directed inquiry.

Indiana Institutions Currently Using CALM

Indiana Unified School districts



Usage of CALM

Indiana High Schools: 80

Indiana HS Teachers: 99

Indiana HS Students:

2,000+ Annually

Pricing

Any Teacher at an Indiana High School may register to use CALM **FREE OF CHARGE.**



*Computer
Assisted
Learning
Method*

<http://calm.indiana.edu>

Your web-based homework

Romaldo de Souza

Indiana University

Department of Chemistry

Phone: 812-855-3767

Email: desouza@indiana.edu

INDIANA
UNIVERSITY
DEPARTMENT OF
CHEMISTRY



: *Computer Assisted Learning Method*

CALM was developed to address several deficiencies that exist in undergraduate and high school education

- Students do not receive sufficient opportunities to practice problem-solving.
- Students are not provided with feedback about their comprehension of a particular concept in a timely manner.
- Students are not challenged based upon their individual strengths, weaknesses, or the unfolding history of their performance in a class.
- Development of instructional materials is both time and resource intensive. Good materials developed at one institution should be broadly disseminated to maximize benefit.

CALM addresses these problems by the following approach.

- CALM allows students unlimited opportunities to solve *algorithmically generated* questions, encouraging them to utilize the subject material as a *learning* tool rather than a *testing* tool.
- Similarly, these *algorithmically generated* questions provide a large database of material to reinforce the mastery of a concept through *immediate feedback* to student responses.
- The architecture of CALM is based on the *Socratic pedagogy*. Each question depending on the response. *To our knowledge no other online system has such an architecture.*

- CALM is accessible from anywhere in the world, not requiring any installation or maintenance at any institution other than Indiana University, Bloomington. Sharing the subject material in this manner maximizes the benefit of the instructional development across all participating institutions.

- CALM is continually working towards the alignment of an ever growing database of questions with both Indiana Academic Standards as well as subject defined keywords.

- New content can be individualized for a given course through development within the CALM Question Editor.

- We are continuously examining how to implement a truly adaptive environment in CALM. One that will challenge all students based on their ability while requiring sufficient mastery of a concept before proceeding to the next hierarchical concept.

Question Types Available In CALM

- Numerical
- Multiple Choice
- Multiple Selection
- Graphical, which test the understanding of special relationships
- Dynamic, multi-part, multi-stage questions
- Essays, or Short Answer

Student Comments on CALM

"C.A.L.M. is a great way of learning. It's fun and educational..."

~ ~ ~

"Your program has helped me in many ways. It has given me the boost I needed to understand the content in my chemistry class better. This program makes me want to learn more about this subject."

~ ~ ~

"a non-threatening technique."

~ ~ ~

"Can work at your own pace."

~ ~ ~

"Keeps you honest so that you cannot copy someone else's work."

~ ~ ~

"CALM is an outstanding program and we are lucky to have Ms. Sing introduce it to us. It makes our work fun and interesting... I like [the positive feedback it gives me] and jump every time I see it and feel very motivated."

~ ~ ~

"Reinforces the examples given in class."

~ ~ ~

"Let's you teach yourself."

~ ~ ~

"You know immediately if you are in error."

~ ~ ~

"Less stressful, knowing you can correct your errors."