A New Classroom Teaching Tool: Wireless Classroom Performance System (CPS)

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What is UT-CPS?
- Each student has a remote with response ID.
- When the instructor asks a question, all students answer it using own remote.
- Responses sent to a receiver and recorded by a computer.
- Bar chart of responses is displayed for feedback and discussion.
- Class session information is posted on the web, which is accessible to students and instructors.

Demonstration of CPS

Do you teach a large class?
A. Yes. Always teach large classes
B. Yes. Occasionally teach a large class
C. No. It is always small class
D. Not now, but will teach a large class in future

Do you ask questions in the middle of your lecture
A. Yes, frequently
B. Yes, occasionally
C. Not now, but will try in future
D. Never

Example of Use in Biology Class
- Opinion questions
- Factual recall
- Problem solving

Benefits in using UT-CPS
- Breaks monotony of straight lecture. Helps to emphasize important points.
- Anonymous responses encourage full class-participation and provide feedback to the instructor.
- Class record encourages class participation and attendance

Student Feedback Survey Summary
How to get started?
- Instructor signs up online. A **Class ID** will be assigned to the instructor/class.
- Each student buys a remote which has a unique **Remote ID**.
- Student **enrolls** online: Input above two IDs, to get the **response ID** for the class.

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**Cost to each student (Spring 03)**

Disclaimer: We have no affiliation with CPS-Co. We promote its use only based on educational merits.

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<table>
<thead>
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<tbody>
<tr>
<td>Remote</td>
<td>$14</td>
</tr>
<tr>
<td>Enrollment fee</td>
<td>$12.5</td>
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<tr>
<td>Remote sell back</td>
<td>-$  5</td>
</tr>
<tr>
<td>(end of semester)</td>
<td></td>
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<tr>
<td>Net cost to student</td>
<td>$21.5</td>
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Enrollment fee is good for 1-semester, during which a student is allowed to enroll in as many classes as it is being used. When more classes are using it, there will be a higher payoff for the same investment.

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**UT- CPS: Past and present**

- On our campus, it is a successor of the Classtalk system – (a wired system used at UT from Fall 1996 to Spring 2001)
- First used at UT in Spring 2002: Bio 301M
- Fall 2002: ~20 classes used the system.
- Spring 2003: So far ~10 classes have signed up to use the system.

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**Interested in using the system?**

- Want to learn more about the system? Please contact us or other fall 2002 cps-users (See handout)
- CNS Multimedia Classroom are equipped with the system: GEA105, Pai2.48, 3.02, 4.42, RLM 6.104, 4.102, Wel 3.502.
- If you will be teaching in one of these rooms and interested in using the system please do online signup. Deadline: 12noon, Wed. Jan 8

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**Classrooms not equipped with CPS**

Need to plan ahead
- For CNS-multimedia classrooms, please contact: Prof. Jeff Brumfield.
- For other classrooms, instructors need to independently explore ways to setup the system. We will be glad to share our knowledge of the system with them.

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**Thanks to**

- Jeff Brumfield and CNS-classroom technology Team lead by Kurt Bartelmehs for installation and maintenance of the system;
- Kevin Nelson for his reliable and tiresless effort in the CPS-assistant work;
- Educational Advancement Foundation and Einstruction Inc for CPS-assistantship support;
- Faculty advisors of the current-project: Jeff Brumfield, Michael Marder, Mel Oakes, Roy Schwitters;
- Physics computer group: Eric Rostetter, John Kerrigan and David Nelson; and
- CPS-users of Fall 02 (See the class data of Fall 2002, in Sec. I.2 of UT-Wireless-CPS homepage).