



# Web-Enabled Student Self-Assessment During and Outside Lecture

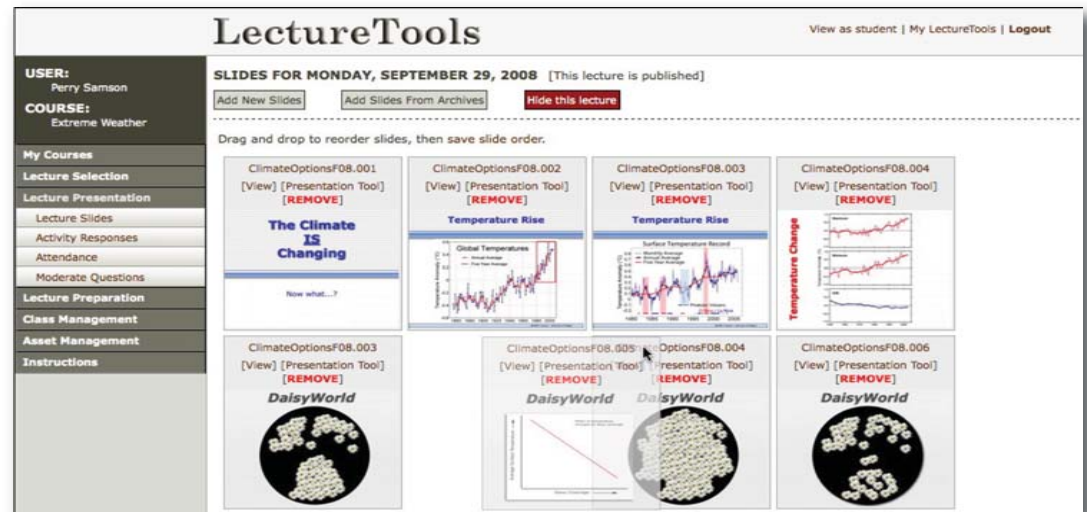
<http://www.lecturetools.org>

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<http://www.xamprep.com>

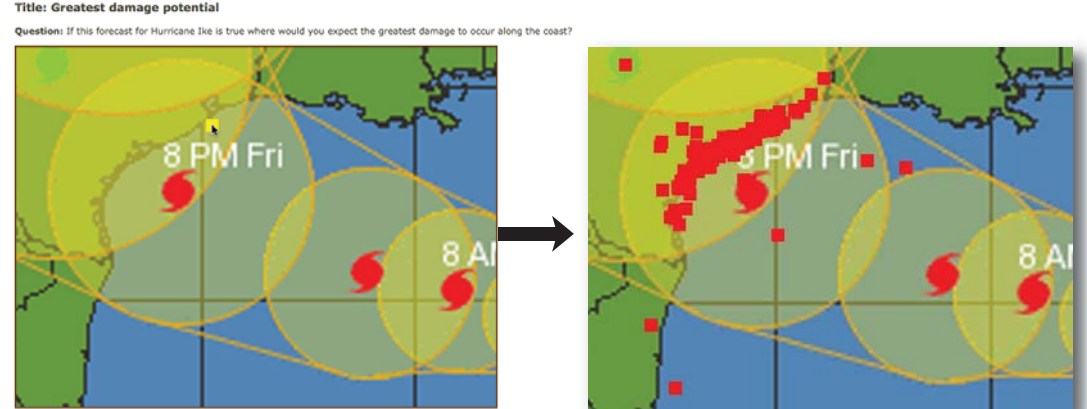
## Benefits to Instructors

### 1. Organize Lecture Preparation

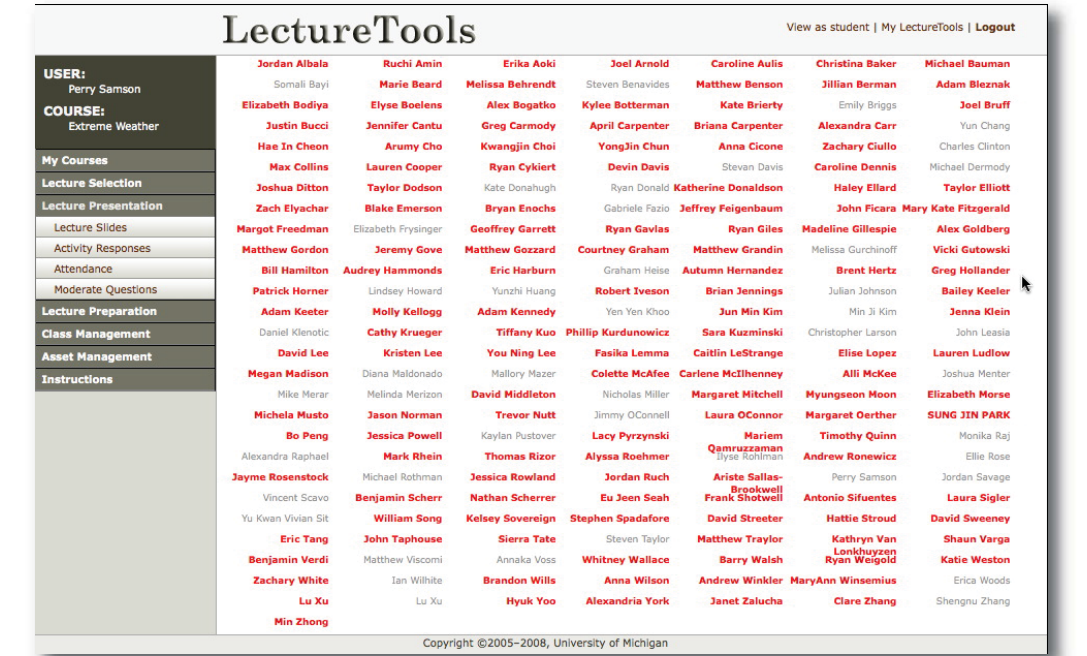


### 2. Easily Add Response Questions

- A. Multiple Choice
- B. Ranking Questions
- C. Association Questions
- D. Free-Response Questions
- E. Image-Based Questions



### 3. Track Attendance/Participation



## Student Functions

### 1. Organize Lecture Material

- A. Move between courses
- B. Note-taking synchronized with lecture slides.
- C. Annotate lecture slides and save.
- D. Play podcasts (optional).

### 2. Interact within Lecture

- E. Indicate comfort with material.
- F. Participate in active response system.
- G. View questions posed by others (anonymously).
- I. Pose questions.

USER: Perry Samson

COURSE: Extreme Weather

My Courses

This Lecture

Lecture Slides

Activities

Animations

Print Lecture

Links

Instructions

Play Podcast

Lecture Slides for Wednesday, April 9, 2008

My Notes

Rate

## Tornadoes, Lightning and Hail

Oh my...

Ordered List:  
Tornado bearing down

A tornado is on the ground in your town you should (rank)

1. Go to the southwest corner of basement

2. Go to northeast corner of basement

3. Open windows

4. Close windows

5. Jump into bathtub

6. Hide under bed

7. Run like banshee

8. Drive like banshee

Draw on this T slide

Ask a question

My Notes

Rate

## Fujita Scale: F0

Maximum Wind Speeds

40-72 mph

Typical Effects

Gale Tornado. Light Damage: Some damage to chimneys; breaks twigs and branches off trees; pushes over shallow rooted trees; damages signboards; some windows broken; hurricane wind speed begins at 73 mph.

Draw on this T slide

Ask a question

My Notes

Rate

## LectureTools QUESTIONS

Q: Do you know if there will be an in-class activity on Friday?

Q: I would like to be a leader in a focus group but only have one person in the group who would like to be the focus group leader?

Q: How long did it take you to grow that AWESOME Punchnut?

Q: Have you talked to Perry about the weather dance party?

Q: What causes the draft in the?

Q: How come we don't have any assigned readings for this but we do for the other?

Q: How do you feel about the weather dance party?

## In Class Assessments

### 1. Promotes "Active Cognition"

```
graph TD
    Lecture --> Concept1[Concept 1]
    Lecture --> MiniLecture[Mini-Lecture]
    Lecture --> Concept2[Concept 2]
    Lecture --> SegmentN[Segment n]
    Concept1 --> ConceptWrapper[Concept Wrapper]
    ConceptWrapper --> ConceptTest[Concept Test]
    ConceptTest --> PeerDiscussion[Peer Discussion]
    PeerDiscussion --> InstructorDiscussion[Instructor Discussion]
    InstructorDiscussion --> PostMessageQuestion[Post Message Question]
```

### 2. Shift in Class Mechanics

How often do you use a laptop in your classes?

Frequency	I don't take any notes	I write notes	On my computer, but not using LectureTools	On my computer using LectureTools
Never	0	1	1	0
Sometimes	1	7	1	12
Most of the time	5	10	5	61
Every time	0	14	0	25
Total	14	32	16	99

How do you feel that your use of laptops in this class has changed the time you spend on tasks unrelated to the lecture?

Frequency	Significant Decreased	Some Decreased	No Effect	Some Increased	Significant Increased
Frequency	1	2	2	2	2

How do you feel that your use of laptops in this class has affected your learning in this course?

Frequency	Significant Positive Effect	Some Positive Effect	No Effect	Some Negative Effect	Significant Negative Effect
Frequency	1	2	2	2	2

## Out of Class Assessments

### 1. Inquiry-based textbook design

### 2. Assess understanding of homework

### 3. Receive summary results