

2005 Industry Use of Training Technologies

**Dr. Carol A. Davis
Crosscut Panel Meeting
Newport, Rhode Island
June 9, 2005**

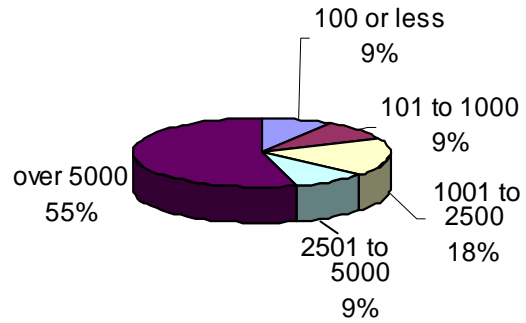
Survey Results on Training Technology Use Were Reported at the 1999 Ship Production Symposium

- **Paper delivered examining training technologies applicable to shipbuilding and ship repair**
- **Five training technologies were identified as having strong potential application to shipbuilding and ship repair**
 - **Computer-Based Training (including intelligent tutoring)**
 - **Electronic Classroom**
 - **Distributed Learning**
 - **Job Performance Support**
 - **Virtual Environment**
- **A small survey was conducted to obtain a quick indication of shipyards' current or planned use**

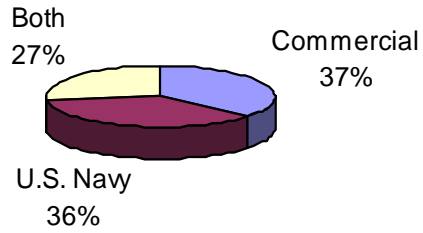
A One Page Survey Was Sent in 1999 to Any Yard Participating in Crosscut Panel Activities in the Previous Five Years

- **Eleven respondents**
- **Ten private yards and one government yard**
- **Varied in size from <100 to over 5000**
- **Customers commercial, Navy, and both**
- **Type of work new construction, repair, and both**

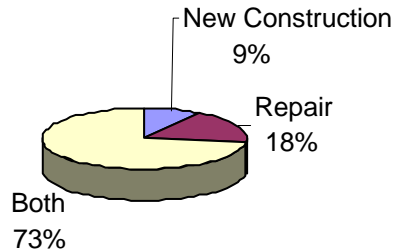
Number of Employees



Customer Base

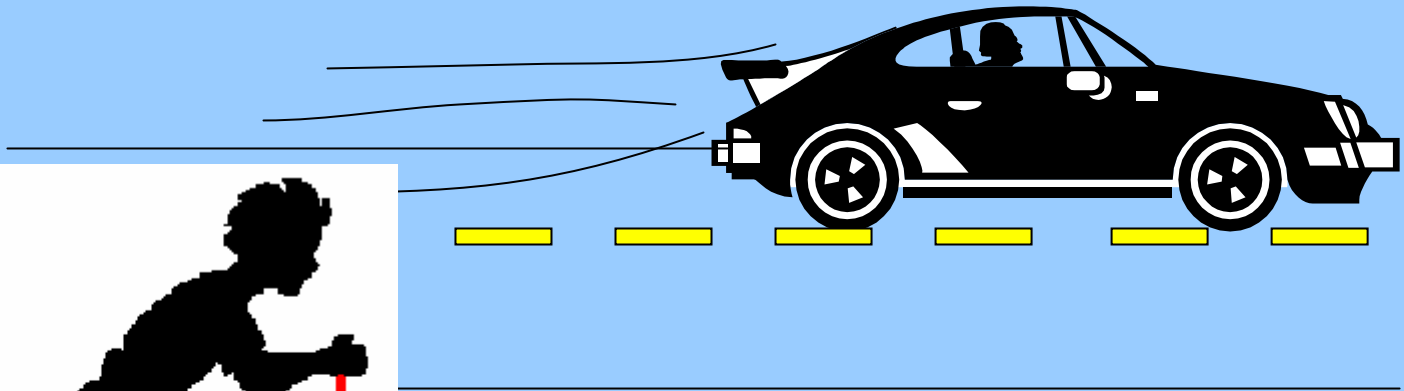


Type of Work

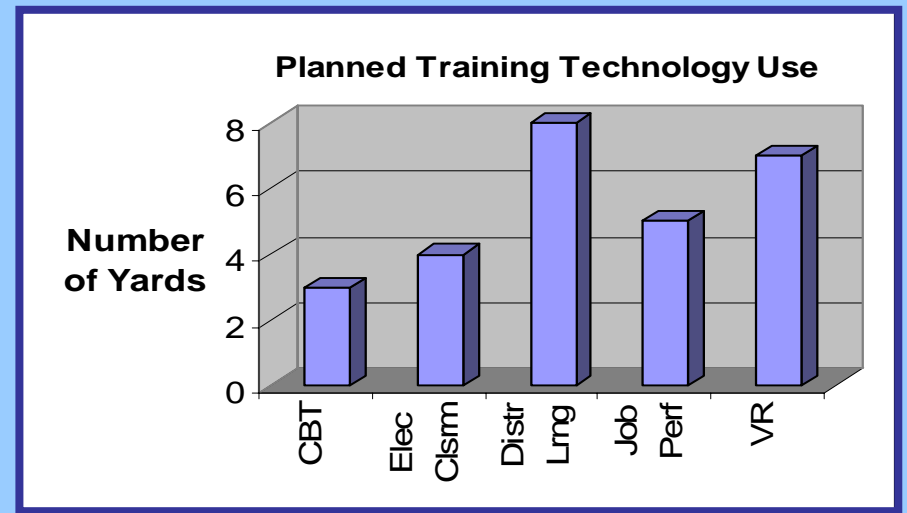
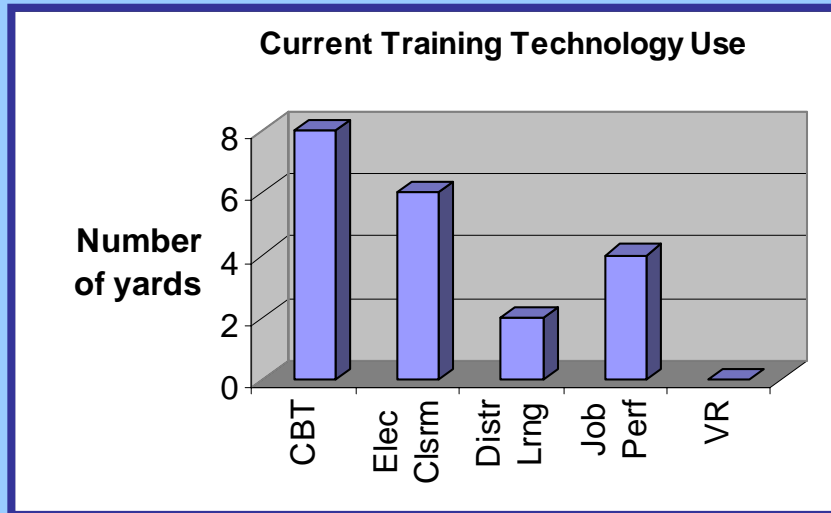


1999 Survey Shipyard Characteristics

Even if Training Technologies Have Positive Evaluations, Can They Gain Acceptance?



Shipyards Indicated Their Current and Planned Use of Training Technology in 1999



One small yard & one large yard indicated no current use

The 1999 Survey Inquired about Shipyards' Concerns for the Application of Training Technologies

Rank	Concern	Mean
1	Cost	3.0
2	Equipment Requirements	3.1
3	Training Effectiveness	3.2
4	Staff Familiarity	3.7
5	Training Time Required	3.9
6	Ability To Adapt	4.1

SPS paper observed that individual shipyards may have had different priorities or concerns

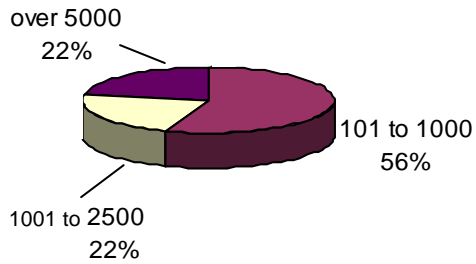
The 1999 Industry Training Technology Survey Was Updated for Use in 2005

- **The current & future use of the original 5 technologies from the 1999 survey were examined again**
- **Two new training technologies were added to the 2005 survey**
 - **Adaptive/Intelligent tutoring**
 - **Game-based learning**
- **The original usage concerns from the 1999 survey were included again**
- **The original shipyard demographic information from the 1999 survey was requested again**

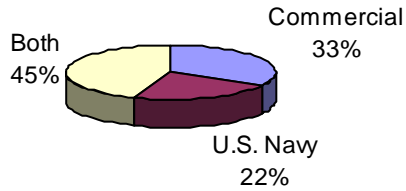
The Survey Was Again Sent to Any Yard Participating in Crosscut Panel Activities in the Previous Five Years

- **Nine respondents**
- **Nine private yards**
- **Varied in size from >100 to over 5000**
- **Customers commercial, Navy, and both**
- **Type of work new construction, repair, and both**

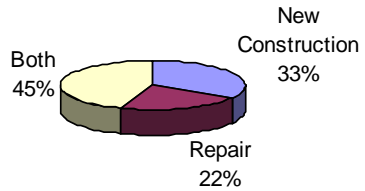
Number of Employees



Customer Base



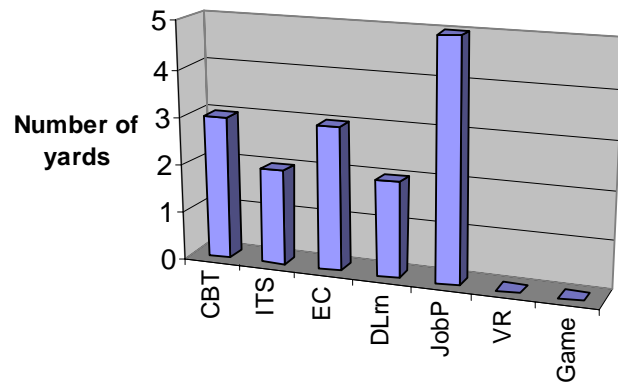
Type of Work



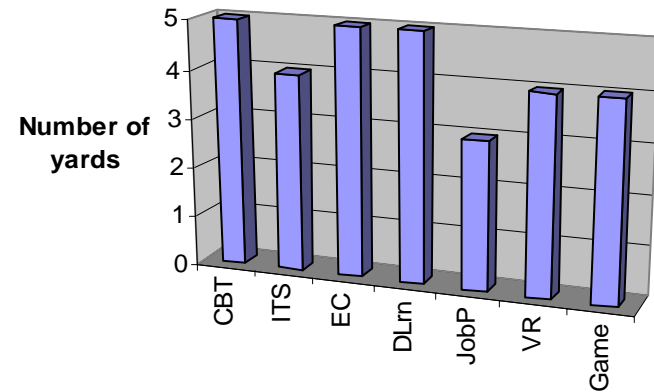
2005 Survey Shipyard Characteristics

Shipyards Indicated Their Current and Planned Use of Training Technology in 2005

Current Training Technology Use



Planned Training Technology Use



One small/medium yard indicated no current use

The 2005 Survey Inquired about Shipyards' Concerns for the Application of Training Technologies

Rank	Concern	Mean
1	Ability To Adapt	2.1
2	Staff Familiarity	2.4
3	Equipment Requirements	2.6
4	Cost	2.7
5	Training Effectiveness	3.1
6	Training Time Required	3.4

Individual shipyards again may have different priorities or concerns

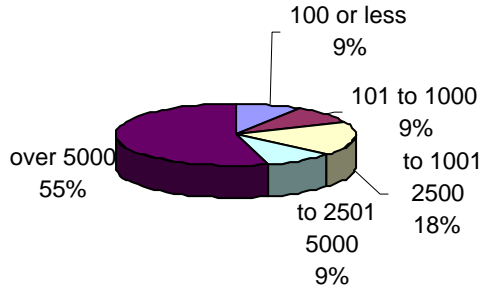
Conclusions

- **Almost all of the shipyards engaged in NSRP activities are using training technologies**
- **Current training technology use centers around the better established training technologies**
- **Shipyards are less engaged in emerging technologies such as intelligent/adaptive training systems, virtual reality systems or game-based systems**
- **The use of job performance systems in shipyards is growing**
- **Shipyards engaged in NSRP activities express a willingness or interest in using more training technology in the future**

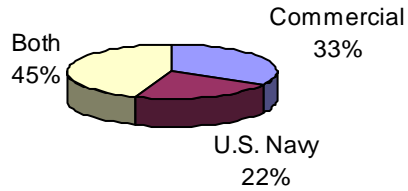
Back-Up Slides

1999

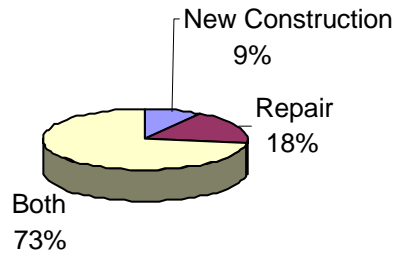
Number of Employees



Customer Base

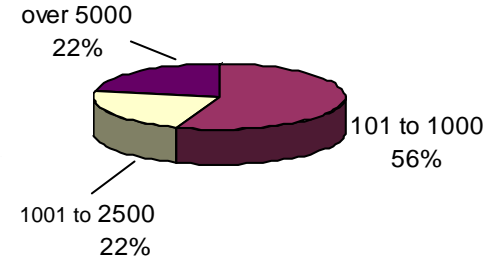


Type of Work

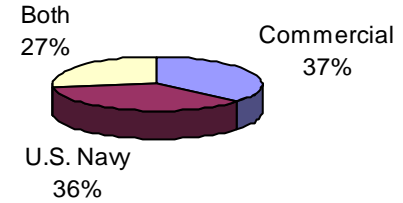


2005

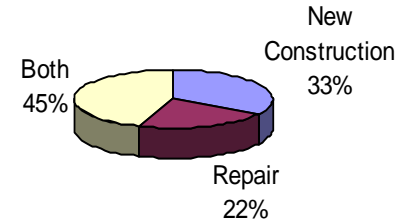
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Customer Base

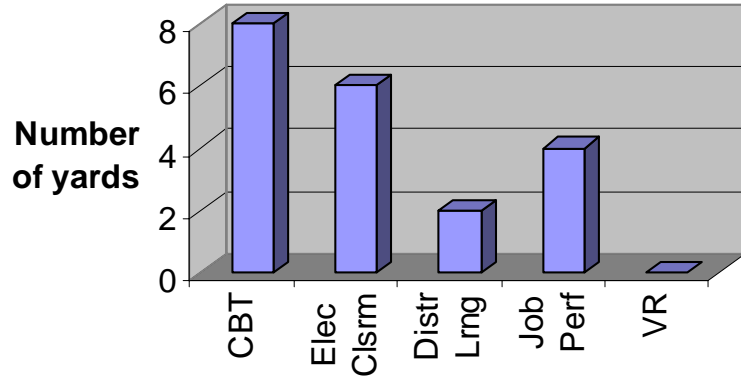


Type of Work



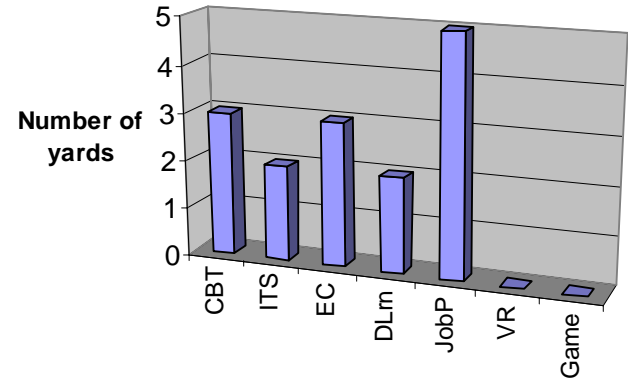
1999

Current Training Technology Use

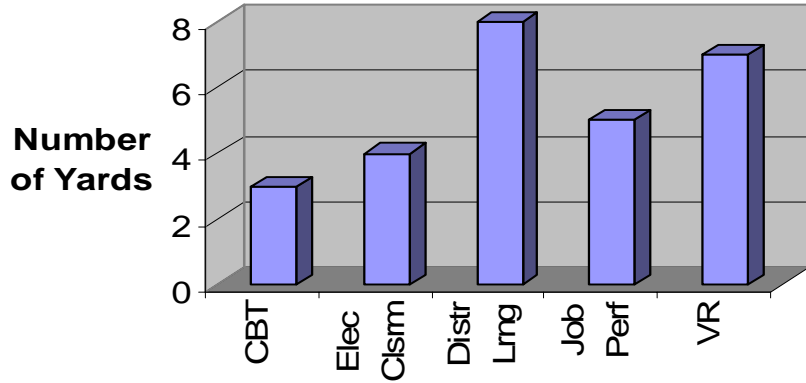


2005

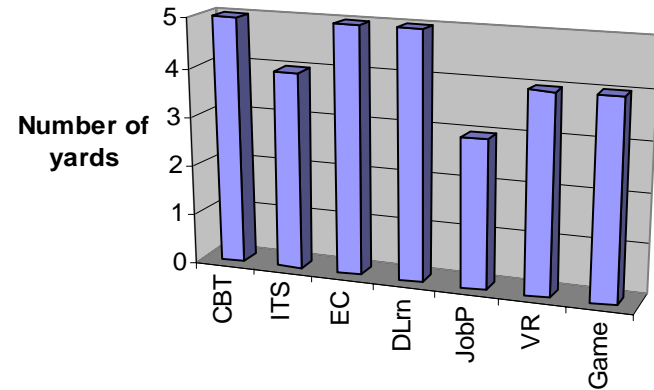
Current Training Technology Use



Planned Training Technology Use



Planned Training Technology Use



1999

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2005

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