Supporting Dynamic Ad hoc Collaboration Capabilities

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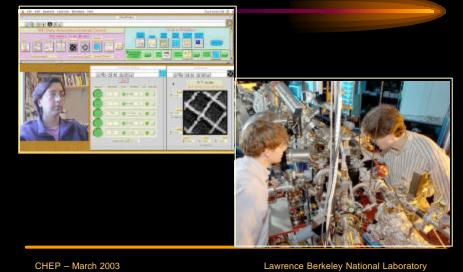


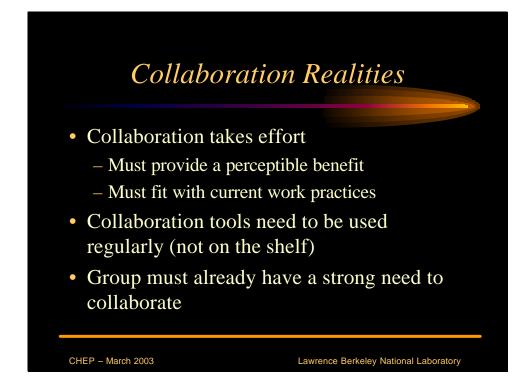
- Formal meeting in person
- Videoconference
- Teleconference/telephone
- Informal discussion/meeting
- File/document sharing
- E-mail/chat
- Papers/documents/web

Increasing % of time

Decreasing synchrony

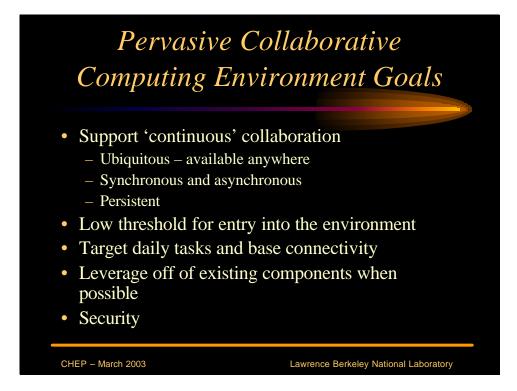
Spectro-Microscopy Collaboratory



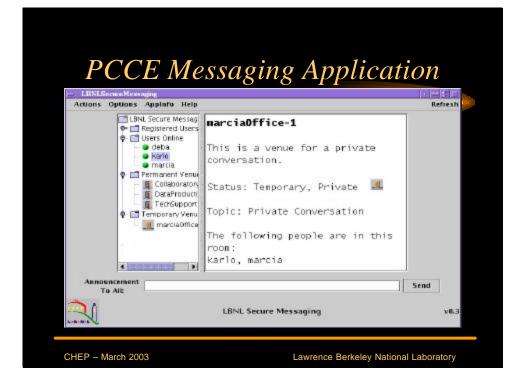












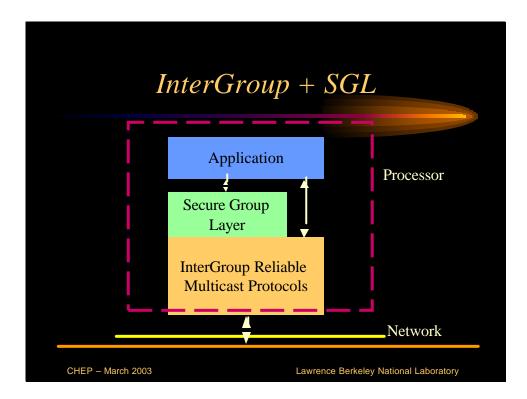
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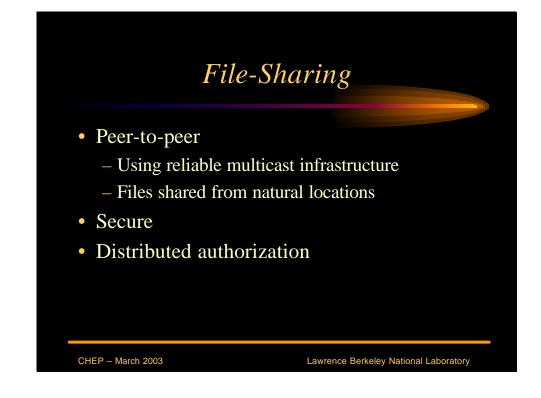
Group Communication

- Provide efficient, reliable, and secure communication between collaborating sites
- Multicast communication channel directly connecting the participants
- Support participants spread across the Internet
- Support ad hoc formation of groups
- Remove dependence on servers

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- Collaborative interactions need to be supported by a continuum of tools
- A basic connectivity presence tool is critical
- Synchronous and asynchronous interaction must be supported
- Video is often unnecessary for day-to-day interactions

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Future Directions

- Shared editing
 - Code development
 - Text document
- Workflow monitoring
- Improved asynchronous messaging
- Incremental trust/authentication

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