

- **Interactive collaboration**
- **Networked distance learning**
- **Collaborative virtual environments**



## CAVE Aps for Inquiry in Science

Pictured is a composite of CAVE applications in action. Student participants at the CAVE are connected via Internet2 with school sites throughout Virginia. These “virtual participants” can interact and experience virtual environments in biochemistry, physics, etc., as if they were really there.



Utilizing Internet2 technology, the Institute for Connecting Science Research to the Classroom is helping to bring virtual environments to high school students in the Commonwealth of Virginia for interactive exploration of math and science problems through 3-D image processing. The ICSRC at Virginia Tech takes satellite signals from the Virginia Tech CAVE, converts them to a digital format and funnels them via Internet2 fiber optics and along *Net. Work. Virginia* to school sites. *Net. Work. Virginia* is an advanced, broadband network that connects the state’s colleges and universities, community colleges, K-12 schools, research facilities and state agencies. Internet2 is a consortium being led by more than 180 universities working in partnership with industry and government to develop and deploy advanced network applications and technologies. The bandwidth available over Internet2 is 10 times greater than the everyday Internet people use. The Internet2 K20 Initiative brings together industry, government agencies, K-12 schools, colleges and universities, libraries and museums to get new technologies such as advanced networking tools, into the hands of innovators across all educational sectors in the country.

[www.icsrc.org/I2K20](http://www.icsrc.org/I2K20)

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