

- **Interactive collaboration**
- **Networked distance learning**
- **Real-time video transmissions**



NetworkVirginia^{ng}

The JASON Project

Pictured are 4th – 9th grade students in Virginia connected via live satellite and Internet2 with researchers and fellow students in Alaska. This interactive distance learning experience introduced the students to such topics as dendrochronology and wildlife biology, which were then applied locally.



Utilizing satellite and Internet2 technology, the Institute for Connecting Science Research to the Classroom is helping to bring real-time scientific investigations to fourth through ninth graders in the Commonwealth of Virginia. The ICSRC at Virginia Tech takes satellite signals from JASON Projects across the country, 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

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