

BIGORAPHICAL SKETCH

Albert S Byers

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A. Professional Preparation

Virginia Tech University	Curriculum & Instruction: Science Ed	B.S., 1985
Virginia Tech University	Curriculum & Instruction: Science Ed	M.A., 1995
Virginia Tech University	Curriculum & Instruction: Instructional Technology	Ph.D., 2010

B. Appointments

- Assistant Executive Director, Government Partnerships and e-Learning, National Science Teachers Association. 05/2002-Present.
- NASA Aerospace Education Specialist (AESP), Goddard Space Flight Center. 07/1995-08/1998.
- Physical Science Educator, Robious Middle School, Chesterfield County Public Schools, Chesterfield, VA. 09/1991-06/1994.

C. Related Publications

Related Publications

1. Byers, A.; Koba, S.; Sherman, G.; Schepke, J.; Bolus, R. (2011). Developing a Web-Based Mechanism for Assessing Teacher Science Content Knowledge. *Journal of Science Teacher Education*.
2. Sherman, G., & Byers, A. (2010). Electronic portfolios in the professional development of educators. In D'agustino, Steven (Ed.), *Adaptation, Resistance, and Access to Instructional Technologies: Assessing Future Trends in Education*.
3. Sherman, G.; Byers, A., Rapp, S. (2008). Evaluation of Online, On-Demand Science Professional Development Material Involving Two Different Implementation Models. *Journal of Science Education and Technology*, February, Vol. 17, pp. 19-31.
4. Byers, A.; Lockee, B., Janosik, S. (2002). Distance Education Policy: Facing the Issues of Access. *Journal of Higher Education Policy and Management*, Vol. 11, n. 1, pp. 46-58.
5. Byers, A. (2000). Uncovering Teachers' Perceptions of the Internet. Al Byers. *Virginia Society for Technology in Education Journal*. Fall, vol. 15, number 1, p. 3-8.

Other Publications

6. Byers, A. (2002). Selecting and using online content for science instruction. *National Conference on Online Learning: Best Practice in Using Online Learning for Teachers*. The University of Alabama, Tuscaloosa, AL. Published Conference Proceeding.
7. Byers, A. (2000). Interaction: The Key to Successful Distance Learning. *EDMEDIA 2000, World Conference on Multimedia, Hypermedia and Telecommunications*, Montreal Canada. ED458870.
8. Byers, A., Fitzgerald, M. (2002). Network for Leadership, Inquiry, and Systemic Thinking: A New Approach to Inquiry-based Learning. *Journal of Science Education and Technology*, March 2002, Vol. 11, n.1, pp. 81-91. Eric Document EJ643811.
9. Byers, A.; Halpin, D.; Smith, T. (2001). Creating virtual labs to teach middle school astronomy principles: The NASA Connect education program series. *WEBNET 2001*,

World Conference On the WWW and Internet, Orlando, Florida. Eric Document: ED466578.

D. Synergistic Activities

- Co-Principal Investigator, NSF 2.5 year \$400,000 grant: Use of Web 2.0 Technologies to Build Distributed Communities of Practice among K-12 Science Educators. NSF 006914071. 2011-2013.
- Principal Investigator, NASA two-year \$1.5 million grant: Integrating NASA Digital Educational Assets (IDEA). NASA Grant NNX07AU68G S09. 2009-2011.
- Principal Investigator, NASA \$4 million grant: Explorer Schools: Project Management and Professional Development Expertise. NASA Grant NNG05GH24G. 2007-2010.
- Principal Investigator, California Institute of Technology, Jet Propulsion Laboratory three-year \$757,000 grant. Mars Public Engagement Professional Development: Addressing Scale and Sustainability. 2006-2008. Prime Contract NAS7-003001.
- Co-Principal Investigator, NSF \$857,000 grant: Connecting NSTA K-16 Science Content to the NSDL. 2005-2007. NSF Grant 0506535.
- Principal Investigator. NSF \$67,000 grant: The International Polar Year: An Interagency Collaboration between NSF, NOAA, and NASA. 2007. NSF ARC 0645895.
- Project Director. Hewlett Foundation \$800,000 grant: Addressing Open Access through Scalable and Sustainable Electronic Professional Development for Science Educators. 2006-2007. Grant: 2005-662.
- Invited Committee Member. Primary Technical Working Group: US Department of Education Grant: Educational Technology-Focused Online Communities of Practice. (Solicitation: ED-PEP-10-R-0053). October 2010-Present.
- Invited delegate/speaker. US Department of Education Asian Pacific Economic Cooperation Summit, Education to Achieve 21st Competencies and Skills for All. Xi'an, China. January 2008.
- Review Panel. NAEP Science Framework Prioritization Expert Review Panel. Sponsored by the US Department of Education's National Center for Education Statistics. April 2008.
- Committee Member: National Board for Professional Teaching Standards, "Adolescence and Young Adulthood/Science Standards Review Committee." 2002-2004.
- Invited Reviewer. Senior Advisory Peer Review Grant Panel, "Anticipating the Role of Emerging Technologies in Science Education," National Science Foundation. October 2002.

E. Collaborators & Other Affiliations – last 48 months

- Dr. Susan Koba, National Science Education Leadership Association, President, 2011. Co-Author.
- Dr. Greg Sherman, Professor, School of Teacher Education and Leadership, Radford University, Radford, Virginia. Co-Author.
- Dr. Steve Marks, Professor Aviation and Space Education. Oklahoma State University, Stillwater, Oklahoma. Co-Principal Investigator.
- Dr. Roger Bolus, President Research Solutions Group. San Diego, California. Co-Author.

Doctorate Advisor: Dr. John Burton, Virginia Tech, Blacksburg, Virginia.