

Albert S. Byers

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A. Objective

To work with a dynamic team of dedicated and like-minded individuals as together we seek to improve excellence and innovation in teaching and learning empowered through technology-enabled STEM solutions. I seek a work environment where I might help lead and follow the strategic imperatives set forth to ignite students' and professors' passion for learning and achievement. I personally desire to apply my expertise and experience in education, online learning, curriculum and instruction, instructional technology, professional development, and strategic fiscal and project planning to impact real, measurable, and lasting change on both state and national levels.

B. 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

C. Employment

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

D. Publications

Related Publications

1. Byers, A.; Koba, S.; Sherman, G.; Scheppke, 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. Angle, J., Ivey, T., Byers, A., Marks, S., & Tingler, P. Science teachers we have digital academic liftoff. *Science Scope*, February 2012, Vol. 36, n. 6. pp. 57-62.
7. 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.
8. Fitzgerald, M.; Byers, A. (2002). A Rubric for Selecting Inquiry-Based Activities. *Science Scope*, September 2002, Vol. 26, n.1. pp. 22-25. EJ659971.
9. Byers, A. (2000). Interaction: The Key to Successful Distance Learning. *EDMEDIA 2000, World Conference on Multimedia, Hypermedia and Telecommunications*, Montreal Canada. ED458870.
10. 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.
11. 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.

E. Synergistic Activities

- 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.
- Co-Principal Investigator, NSF three-year \$399,564 grant: Use of Web 2.0 Technologies to Build Distributed Communities of Practice among K-12 Science Educators (Solicitation: NSF 11-501: Virtual Organizations). 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 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.

F. Selected Recent and Upcoming Speaking Engagements

- Invited Panelist: Improving Educator Effectiveness—Teachers as Co-learners. State Educational Technology Directors Association Leadership Summit, Washington, DC, November 2011.
- Invited Speaker: Online Professional Development: Applying What the Research Says for Effective Scalable and Sustainable Learning Communities. 35th Annual SECME Summer Institute (Diversity in STEM Education). University of Alabama, Tuscaloosa, AL, June, 2011.
- Immersive Environments for Science Education: Hyper-learning or Over Hyped Learning, ISTE National Conference, Philadelphia, PA, June, 2011.
- Invited Keynote Speaker: Online Professional Development: Applying What the Research Says for Effective Learning. Next Step Institute-Navigating the Landscape of STEM Conference, Dover, DE, May, 2011.
- Invited Panelist: Online Communities of Practice: What Works? Florida Educational Technology Conference, Orlando, FL, January, 2012.
- Symposium Panelist: Digital Resources to Support Science Instruction: Research, Development and Practice. Annual International Conference, National Association for Research in Science Teaching, Indianapolis, IN, March 2012.
- Professional Development Institute: Blending Online and Onsite Professional Development: Applying What the Research Says for Effective and Sustainable Learning Communities. Annual Conference, National Science Education Leadership Association, Indianapolis, IN, March, 2012.
- Session Presenter: Social Network Analysis of Affiliation Networks to Promote Online Communities of Practice for Science Education. Annual meeting of the International Network for Social Network Analysis, Sunbelt XXXII, Redondo Beach, CA, March 2012.
- Session Presenter: The NSTA Learning Center. A Tool to Develop Preservice Teachers. National Conference, National Science Teachers Association, Indianapolis, IN, April 2012.