
Building Capacity for State Science Education (BCSSE) - Project Leadership

BCSSE Advisory Committee:

Philip Bell, *Geda and Phil Condit Professor of Science and Mathematics Education, University of Washington*

Dr. Bell is an associate professor of the Learning Sciences at the University of Washington and the Geda and Phil Condit Professor of Science and Mathematics Education. He directs the ethnographic and design-based research of the Everyday Science and Technology Group as well as the University of Washington Institute for Science and Mathematics Education focused on coordinating P-20 education efforts across the university.

Rodger W. Bybee, *Director Emeritus of Biological Sciences Curriculum Study (BSCS)*

Dr. Bybee is Chair of the Science Forum and Science Expert Group and was a Questionnaire Panel Consultant for Program for International Student Assessment (PISA) 2006. Until 2007, Dr. Bybee was Executive Director of the Biological Sciences Curriculum Study (BSCS), a non-profit organization in Colorado Springs, Colorado. He was a member of the NRC Committee developing the Framework for K-12 Science Education Standards and is currently a member of the writing committee for the Next Generation Science Standards.

Richard Duschl, *Kenneth B. Waterbury Chaired Professor in Secondary Education, Penn State University*

Prior to joining Penn State Dr. Richard Duschl held the Chair of Science Education at King's College London and served on the faculties of Rutgers, Vanderbilt and the University of Pittsburgh. He recently served as Chair of the National Research Council research synthesis report *Taking Science to School: Learning and Teaching Science in Grades K-8* and is currently a member of the Next Generation Science Standards writing team.

Rich Lehrer, *Professor of Science Education, Vanderbilt University*

Dr. Lehrer's is a professor of Teaching and Learning at the Peabody College, Vanderville University. Dr. Lehrer's research focuses on children's mathematical and scientific reasoning in the context of schooling, with a special emphasis on tools and notations for developing thought. His research in mathematics education includes work with teachers and children in urban schools (Phoenix, AZ) and with Yup'ik children and their teachers in Alaska. Additional research focuses on design and development of case-based hypermedia tools for teachers, with attention to the role that dynamic tools like these can play in fostering community and continued professional development.

Sarah Michaels, *Professor of Education, Clark University*

Dr. Michaels is currently involved in a variety of research projects which focus on academically productive talk in math, science, and English Language Arts, from Pre-Kindergarten through High School. She served as Director of the Literacies Institute in Newton, MA, funded by the Mellon Foundation. In addition, Dr. Michaels also directed projects on language and schooling with funding from the Spencer Foundation, Carnegie, and the Massachusetts Department of Education, while serving as a Research Associate and Instructor at the Harvard Graduate School of Education.

Bill Penuel, *Professor of Education, University of Colorado-Boulder*

Dr. Penuel is professor in educational psychology and the learning sciences. His research focuses on teacher learning and organizational processes that shape the implementation of educational policies, school curricula, and afterschool programs. In his research, he examines learning and development from sociocultural, social capital, and complex social systems perspectives.

Stephen Pruitt (Ex-Officio), *Vice President for Content, Research and Development, Achieve Inc*

Dr. Pruitt is the Vice President for Content, Research and Development at Achieve. He leads the development of the Next Generation Science Standards. Stephen joined the Georgia Department of Education (GaDOE) in 2003 holding the roles of Program Manager for Science, Director of Academic Standards, Associate Superintendent of Assessment and Accountability, and finally as Chief of Staff to State School Superintendent Kathy Cox. Stephen also served as President of the Council of State Science Supervisors from 2008-2009.

Heidi Schweingruber, *Deputy Director, Board on Science Education, National Research Council*

Dr. Schweingruber is the Deputy Director of the Board on Science Education at the National Research Council. As deputy director, she coordinates and oversees all of the work of the board and has presented widely on behalf of this work. Currently, she is study director for the NRC Framework for K-12 Science Education. She served as study director for a She co-directed the study that produced the 2007 report *Taking Science to School: Learning and Teaching Science in Grades K-8*.

Andrew Shouse, *Associate Director, University of Washington Institute for Science and Mathematics Education*

Dr. Shouse is associate director of the University of Washington Institute for Science and Math Education. His research focuses on equitable science education in formal and informal settings, and communication of research to policy and

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practice audiences. Dr. Shouse's work is informed by a breadth of experiences in practice, including teaching elementary and middle grades, science center administration, and policy analysis.

Ted Willard (Ex-Officio), Project Director, COMPASS Project

Mr. Willard is the NSTA's COMPASS project director. Prior to joining NSTA Mr. Willard was project director for Project 2061. He was responsible for the development of the growth-of-understanding maps published in Atlas of Science Literacy, Volume 2. He also participated in Project 2061's work in assessment and curriculum analysis and is involved in several National Science Digital Library (NSDL) projects.

CSSS BCSSE Project Leads

Juan-Carlos Aguilar (GA), President, Council of State Science

Dr. Aguilar is the Georgia Department of Education Science Program Manager. He oversees state policy in the area of science education, coordinates K-12 science curriculum development, co-directs Georgia's K-12 STEM initiative, supervises the alignment of the state assessments with the Georgia Performance Standards for science and serves as liaison between the Georgia Department of Education and the different science organizations across the state, and the Georgia Department of Education and the Georgia University System in the area of science.

Peter McLaren (RI), Past-President, Council of State Science Supervisors

Mr. McLaren is the Science and Technology Specialist for the Rhode Island Department of Education. Mr. McLaren responsibilities include policy issues pertaining to K-12 science curriculum, instruction, and assessment as well as technology education. He is currently a member of the writing committee for the Next Generation Science Standards, a member of the National Academies' *Developing Assessments of Science Proficiency in K-12 Committee*, and a member of the Board of Directors for the Triangle Coalition for Science and Technology Education.

BCSSE Project Director:

Brett Moulding, Director, Utah Partnership for Effective Science Teaching and Learning

Mr. Moulding is the director of the Utah Partnership for Effective Science Teaching and Learning. He served on the Board on Science Education for the National Academy of Sciences from 2005 to 2011 and also on the NRC Committee developing the Framework for K-12 Science Education Standards. He is currently on the writing committee for the Next Generation Science Standards and was the President of the Council of State Science Supervisors from 2003 - 2006.

BCSSE Logistics and Operations Director

Nicole Paulson, Utah Partnership for Effective Science Teaching and Learning

Ms. Paulson is the co-director for the Utah Partnership for Effective Mathematics and Science Teaching and Learning program and works as a contractor with Achieve for developing the Next Generation Science Standards. She was the Curriculum Coordinator and Mathematics Specialist at the Utah State Office of Education from 2001-2008 and served as the 1st Vice-President for the Association for State Supervisors of Mathematics from 2006-2008.