

## Meet the candidates

The election of ACerS Board of Directors and president-elect, along with the election of division and class officers, will take place **June 7 through July 6**. The nine directors of the board are elected to staggered three-year terms. This year, three candidates are running for the three open seats. Eligible members will be able to vote one of three ways: return the ballot on the previous page by mail or return it by fax, or cast a vote online. Beginning June 7, voting information will also appear online at [www.ceramics.org](http://www.ceramics.org).

### President-Elect candidate



David J. Green

Professor of ceramic science and engineering, Department of Materials Science and Engineering, Pennsylvania State University, University Park, Pa.

#### Candidate statement

The American Ceramic Society has provided me with the framework for my career and, in return, it would be an honor to help direct its future. As a Society member for more than 40 years, I formed a personal and professional network that has been invaluable to my career. I would like to see this opportunity extended to our present and future members. As many aspects of life become more impersonal, it will be a challenge to attract new members and give them the chance to grow in a friendly atmosphere and yet, to interact with leaders in our field. There is a need to develop a new image for ACerS that excites our members about the myriad properties of inorganic compounds and the opportunities that are available in our field. Our membership roots were traditionally based in ceramic science and engineering programs at universities, but as materials science programs have subsumed these programs, it is clear a new paradigm is needed

to attract young professionals in our field. At the same time, there are now many opportunities for ACerS to grow at a global level. Just look through the *Journal of the American Ceramic Society* to see its reach to international countries; the opportunities are immense. I have been very pleased to manage the *Journal* as it moved online, and I strive to ensure it remains the top journal in our field. Overall, I have seen most facets of the Society and think this experience will be invaluable as president-elect and help me identify new directions for growth and success.

#### Biography:

BSc, chemistry, University of Liverpool, England, 1968;

DipEd, chemistry, University of Liverpool, England, 1969;

BSc, materials science, University of Liverpool, England, 1970;

MSc, materials science, McMaster University, Canada, 1972;

PhD, materials science, McMaster University, Canada, 1977.

Prior to joining the faculty of Pennsylvania State University in 1984, Green was on the technical staff of Rockwell International Science Center and was a research scientist with CANMET, Canada. At Penn State, he was simultaneous program

chair (1992–1998) for the ceramic science and engineering program, and the electronic and photonic materials program.

He has authored or coauthored more than 220 publications, including two books, and has been awarded three patents. One book, *Introduction to the Mechanical Properties of Ceramics*, has been translated into Korean and Chinese. His research involves relationships between fabrication, microstructure and mechanical properties of brittle materials.

He has been a Fellow of the Society since 1991, is a Fellow of the Canadian Ceramic Society and an Academician in the World Academy of Ceramics. In 2005, he was awarded the Basic Science Division's Sosman Award, and in 2006 he became an Alexander von Humboldt Senior Fellow, which included research time in Germany. Green received the Lee Hsun Lecture Award from The Chinese Academy of Sciences in 2009.

Green has been on the Society's Board of Directors since 2010 and has been involved with the *Journal of the American Ceramic Society* for 32 years, serving as senior editor from 2003 to the present. He has served on the Society's Publications Committee, has been a symposium organizer and short course instructor.

### Director candidates



Elizabeth (Beth) C. Dickey

Professor, Materials Science and Engineering, North Carolina State University, Raleigh, N.C.

#### Candidate statement

I appreciate being considered for The American Ceramic Society Board of Directors. ACerS plays an important role in the propagation and development of ceramic science and engineering to address an increasingly diverse set of engineering challenges facing our world. Through technical programming, communications, outreach, professional development and leadership development, the Society serves as the main hub for current and future professionals in our discipline. As with any organization, the Society must stay

abreast of, anticipate and influence trends in the interrelated aspects of policy, education and technology. As a member of the Board of Directors, I would help provide the Society with my perspectives and opinions on these diverse issues and help set the vision and tactics of the Society to be a vibrant and impactful professional organization.

#### Biography

BS, materials engineering, University of Kentucky;

PhD, materials science and engineering, Northwestern University.

Dickey's primary fields of research are interface materials science and electron microscopy. She has authored or coauthored 114 refereed journal articles and has been awarded one patent. Her early work was recognized with the Presidential Early

Career Award for Scientists and Engineers in 1999. She has been on the faculties of the University of Kentucky and Pennsylvania State University, and joined the faculty of North Carolina State University in 2011.

She is a member of the Basic Science Division and has held all four division leadership positions, most recently serving as chair in 2008–2009. She was a three-year member of the Society's Strategic Planning for Emerging Opportunities Committee and has been very involved with the Meetings Committee and the Basic Science Division's Sosman Award Committee. She has been an associate editor of the *Journal of the American Ceramic Society* since 2005 and has lent her microscopy expertise as a judge of the Ceramographic Poster Contest for students. Dickey was elected a Fellow of the Society in 2010.



Keith J. Bowman

*Duchossois Leadership Professor of Materials Engineering and Chair, Mechanical, Materials and Aerospace Engineering, Illinois Institute of Technology, Chicago, Ill.*

*Adjunct Professor, Materials Engineering, Purdue University, West Lafayette, Ind.*

**Candidate statement**

I became involved in ACerS when I switched from metals-based research to ceramics research in 1987 during my postdoctoral studies on transformation toughening in zirconia with I-Wei Chen. I coauthored my first communication in the *Journal* the following year and have attended annual meetings and/or division meetings consistently since then. Nearly all of my 20+ PhD students have conducted research on ceramic materials, and many of them gave their first presentations at an ACerS meeting. I am a member of seven professional societies because of the breadth and nature of my research and professional interests, but it is clear to me that my membership in ACerS is the most important.

I believe that the essence of ACerS is derived from a common spirit of collaboration and community between the academic and professional interests that persist in the leadership of ACerS. Looking at the previous and current directors, including my fellow nominees for director, I see a common theme of people whose examples I would like to follow and build upon. Charting the right pathway for ACerS is very important for the ceramics research and education communities and also for industries that produce and utilize ceramics.

Having the opportunity to be considered for a society-level leadership role is an honor and also a challenge. I am eager to demonstrate that I am deserving of the recognition and also ready.

**Biography**

BS, metallurgy and materials science, Case Western Reserve University, 1981;

MS, metallurgy and materials science, Case Western Reserve University, 1983;

PhD, materials science and engineering, University of Michigan, 1987.

Bowman's career began as a research fellow at the University of Michigan (1987–1988). Before joining the faculty of IIT in 2011, he was on the faculty at Purdue University (1988–present), where he con-

tinues to hold an adjunct appointment.

He has published 140 papers and authored a textbook, *An Introduction to Mechanical Behavior of Materials*. His teaching has been recognized with many awards including the Purdue Engineering Mentoring Award and the Purdue University Book of Great Teachers. Other recognitions include the Alexander von Humboldt Research Award for Foreign Scholars and Purdue University Faculty Fellow.

Bowman has been an active Society member since 1988 and has held all four leadership roles in the Basic Science Division, culminating in his serving as division chair in 2009–2010. He has served on the Nominating Committee and the President's Faculty Advisory Board. He has been an associate editor of the *Journal of the American Ceramic Society* since 1996 and has participated in several international committees. Bowman was elected a Fellow of the Society in 2000.



Mrityunjay (Jay) Singh

*Chief scientist, Ohio Aerospace Institute, NASA Glenn Research Center, Cleveland, Ohio*

**Candidate statement**

I am deeply honored to be nominated for the ACerS Board of Directors. I firmly believe in the Society's vision and its importance to the growth and visibility of our community. I will ensure that ACerS meets our members' needs, attracts new members, nurtures new ideas and has a sound foundation for the future.

ACerS should be the first-stop resource for technical information, scientific knowledge, education and training, networking and professional development for its members and customers worldwide. It is critical that we promote interaction among constituencies and stakeholders through technical meetings, education and training, and listening and proactive communication.

In two decades of Society membership, I have been fortunate to work with smart and talented people from around the world and a diligent and dedicated Society staff. I have gained insight into ways to manage change and resolve issues in the changing scope and landscape of professional societies.

As a past chair and current trustee of the Engineering Ceramics Division, I have been able to lead the globalization and growth of

the successful Daytona Beach international conferences on advanced ceramics. We have started volunteer recognition efforts, highly successful intercontinental engineering ceramic summits and a global young investigators forum. I also was instrumental in the successful start-up of the *International Journal of Applied Ceramic Technology*.

I will augment the efforts of ACerS to extend the reach of ceramic science and technology, and to promote interaction among industrial, academic and government laboratory constituencies. I will develop programs for young professionals and international members. I envision strategic alliances with other international societies and prominent stakeholders, and pledge to initiate strong volunteer recognition activities to leverage our strengths.

**Biography**

MS, physical chemistry, Gorakhpur University, India;

PhD, metallurgical engineering, Banaras Hindu University, Varanasi, India.

Singh did his postdoctoral work at Rensselaer Polytechnic Institute, Troy, N.Y., before joining NASA Glenn Research Center in 1991, where he has worked on advanced structural ceramics, fiber-reinforced composites, biomorphic ceramics, ceramic joining and integration technologies and thermal management materials. He edited or coedited more than 40 books and five journal volumes, authored or coauthored 10 book chapters or invited reviews and more than 250 papers. He serves on the advisory boards of more than a dozen international journals and technical publications.

Singh is a ACerS Fellow and has received many Society awards and more than 45 national and international awards and recognitions from other technical societies. He has served on strategic planning, leadership, fundraising, membership and award committees and is chair of the Presidential International Advisory Group. He has chaired or cochaired many ACerS international conferences, including PACRIM8 in Vancouver and HTCMC-5 in Seattle, Wash.

Singh is a Governor of Acta Materialia Inc. and Academician of the World Academy of Ceramics and a Fellow of ASM International and the American Association for the Advancement of Science.