

For ACCE Executive Officers or Member of Board of Directors

CV

NAME Xianming Shi



Picture

Year of birth: 1974

Academic record:

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|---|------------------------------|-------------|
| Beijing Institute of Chemical Technology | Corrosion & Protection | B.S., 1993 |
| Tianjin University | Applied Chemistry | M.S., 1996 |
| Institute of Chemistry, Chinese Academy of Sciences | Chemistry | Ph.D., 1999 |
| Montana State University – Bozeman | Industrial & Management Eng. | M.S., 2002 |

Honors:

- Outstanding Research Award, College of Engineering, Montana State University, 2005
- Specially Invited Professor, School of Materials Sci. & Eng., Tianjin University, since 2005

Professional positions (for past 10 years if any):

Program Manager, Western Transportation Institute (WTI), Montana State University – Bozeman, Montana, 2005 – Present
Research Scientist, Western Transportation Institute (WTI), Montana State University – Bozeman, Montana, 2004 – Present
Research Associate, WTI, Montana State University – Bozeman, Montana, 2003-2004

Research Aide, WTI, Montana State University – Bozeman, Montana, 2002-2003

Service in ACCE:

Member since 2004

Other Professional Organizations' Member:

- Member, Committee on Corrosion (AHD45), Transportation Research Board, since 2005
- Member, Committee on Polymer Concretes, Adhesives, and Sealers (AHD40), Transportation Research Board, since 2005
- Member, Committee on Basic Research and Emerging Technologies Related to Concrete (AFN10), Transportation Research Board, since 2005
- Associate Member, Institute of Transportation Engineers (ITE), since 2003
- Member, National Society of Corrosion Engineers (NACE), since 2002
- Member, Institute of Industrial Engineers (IIE), since 2000
- Member, American Society of Quality (ASQ), 2002-2005
- Member, Chinese Society for Corrosion and Protection (CSCP), 1996-1999

Related activities:

In addition to his diverse expertise in statistics, corrosion science, and materials science, Dr. Shi also has extensive project experience and dedicated interest in transportation research. Since joining WTI, he has been managing more than ten research projects (valued at more than \$1.5 million) aimed to address a variety of cross-cutting, multi-disciplinary issues faced by today's transportation industry. Dr. Shi's research is funded by the U.S. Federal Highway Administration as well as the state departments of transportation of California, Washington, Utah and Montana. The primary focus of his current research interests is advanced materials/technologies to reduce materials corrosion and to improve the durability of transportation infrastructure. Before joining WTI, he had also conducted studies related to the microbially influenced corrosion of stainless steel structures in streams as well as the development of a high-performance resin system for aerospace applications, a localized corrosion sensor for marine environments and a non-solvent epoxy coating for food containers.

Currently Dr. Shi leads the Corrosion and Electrochemistry Laboratory at WTI, which has been funded by the U.S. Federal Highway Administration. In the area of *infrastructure preservation*, his research ranges from predicting the service life of corrosion-resistant mineral admixture concretes, evaluating the effect of deicers on reinforced concrete structures, investigating the corrosion and corrosion inhibition mechanisms at the steel/concrete interface, to establishing protocols for rapid evaluation of corrosivity of chemical deicers.

Dr. Shi is the author or co-author of many technical publications, including eleven peer-reviewed journal papers and ten conference papers.

Candidate's statement

If I were elected Vice President of ACCE International, I would pursue most of the objectives that I have actively pursued in various capacities during the past 2 years of service to this and other organizations. As VP, I would use the power of the office for the following activities.

1. To promote the image of ACCE, through broadening the distribution of ACCE newsletters, enriching the contents of ACCE newsletters (e.g., reporting research projects led by our members), and representing ACCE to work closely with professionals and researchers in China and other parts of the world.
2. To improve the visibility of ACCE in the industry and academia, by engaging private companies and research organizations in ACCE's governing board and seeking their input on ACCE's strategic direction, by encouraging them to sponsor ACCE scholarships, fellowships, and workshops, by encouraging them to join as a Platinum/Gold/Silver member or advertise their products/services/positions on ACCE website and newsletters, etc.
3. To promote the peer-to-peer collaboration for technical information exchange and cooperative efforts among Chinese corrosion researchers, such as an *Ask-the-Expert* open forum, an *Funding & Collaboration* board (accessible only by ACCE members) where information about upcoming funding opportunities and intent to collaborate will be posted by members, a *CorrLinks* page (accessible only by ACCE members) where useful web links and key publications will be categorized for members' convenience, and a *CorrNews* page (accessible only by ACCE members) where recent advancements will be reported by members, and a *Career* page where job opportunities and resumes can be posted.
4. To stimulate the generation of innovative research ideas through academic presentations, brainstorming workshops, informal meetings, etc. This can be conducted online or in the week of NACE conference. We can also invite people from non-corrosion fields to present advancements in frontiers of science and technology, such as those in nano-science, bio-technology and materials science in general.

For further details, please visit my website at http://geocities.com/xianming_shi/.

Questions and comments can be sent to my e-mail address:

Xianming_s@coe.montana.edu.