



# CAACME NEWSLETTER



**Volume 6, Issue 1, January 2003**

This is the CAACME NEWSLETTER, an informational electronic newsletter sent from the office of Chinese American Association of Corrosion and Materials Engineers (CAACME). The purpose of this newsletter is to inform CAACME Community and others about the past & upcoming programs, and relevant information. If you have any pertinent information, please contact Editor: Feng Gui ([fg6e@virginia.edu](mailto:fg6e@virginia.edu))

## Headline NEWS

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## 1. CAACME New Leadership for 2002-2004

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During the CAACME 2002 meeting in Denver in April 2002, Dr. Hongwei (David) Wang was elected as president from 2002 to 2004. A Board of Directors and Advisory Board have been built afterwards as follows.

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### BOARD OF DIRECTORS

Hongwei (David) Wang, President, 2002-2004  
Postdoctoral Researcher  
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Bob Fu, Vice President, 2002-2004  
Senior Research Scientist  
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Feng Gui, Secretary, 2002-2004  
Research Associate  
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Shelley Zhou, Treasurer, 2002-2004  
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## ADVISORY BOARD



George Lai  
Founding President of CAACME, 1996-1998  
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- David Wang



## 2. CAACME First Constitution and By-laws Have Been Drafted



<http://www.caacme.homestead.com/bylaws.html>

Based on this constitution and new team, a business plan of association has been developed to meet the interests of members and the mission of association as shown at <http://www.caacme.homestead.com/2002Program.html>.

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- David Wang

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## 3. Overseas Chinese Corrosion Delegation Joined the 2nd China International Corrosion Conference in November 2002 in Beijing

As the representative from CAACME, Dr. Guan gave a keynote presentation including two parts (i) the CAACME introduction and (ii) "External Corrosion Protection Systems for Flammable and Combustible Liquid Underground Storage Tanks" in the first day of China International Corrosion Conference. Delegation members, Dr. Hong and Mr. Zeng, were not able to join the conference because of confliction in schedule.

- Shiwei Guan

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## 4. CAACME Gathering in ECS Fall meeting

Professor Jingli Luo and Dr. Hongwei Wang, Board Member of CAACME, have organized the first CAACME gathering in the 202nd Electrochemical Society Meeting in Salt Lake City, Utah, USA on October 23, 2002. The following new members have joined the meeting and association via mailing list.

Yuhong Huang, General Manager, Chemat Tech Inc, California, USA  
Zhi Fang, Medtronic Inc. Minnesota, USA  
Ying Luo, University of Central Florida, USA  
Zhaohui Chen, Dalhousie University, Canada  
Tiangang Lian, Lawrence Livermore National Lab, California, USA  
Tianbao Du, University of Central Florida, USA  
Hui Yang, Illinois Institute of Technology, USA  
John Zhang, USA  
Yingda Yu, Norwegian University of Science and Technology, Norwegian  
Xiangyang Zhou, The Pennsylvania State University, Pennsylvania, USA

Welcome you new members to join CAACME!

- David Wang

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## 5. Research/Development Events

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- 1) Submitting Business Ideas to The China Meets Silicon Valley Expo  
<http://groups.yahoo.com/group/caacme/message/166>
- 2) 2nd North America High-Tech Convention October 18-22, 2002 in Washington, D.C. (<http://groups.yahoo.com/group/caacme/message/167>)
- 3) 3rd International Conference on Surface Engineering in CHENGDU, P. R. CHINA (<http://www.swjtu.edu.cn/ICSE2002/>)
- 4) Call for Papers for “*second international symposium on environmental degradation of materials and corrosion control in metals (EDMCCM)*”, ([http://www.metsoc.org/conferences/com2003/abstract\\_form.asp](http://www.metsoc.org/conferences/com2003/abstract_form.asp), Contact: Chairwoman, Prof. Jingli Luo at [jingli.luo@ualberta.ca](mailto:jingli.luo@ualberta.ca) )
- 5) Petroleum Technology Forum, Celebration of 50<sup>th</sup> Year of University of Petroleum, China, June 2003  
(<http://groups.yahoo.com/group/caacme/message/175>)
- 6) National Association of Corrosion Engineers (NACE) 2003 Annual Conference (<http://nace.org/NACE/content/conferences/c2003/welcome.asp>)

- David Wang

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## 6. Member Profiles

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From this issue of CAACME newsletter, one or two member members will be introduced in each issue so that finally all of us could be familiar with each other. In this issue, we will introduce Prof. Ke Wei (CAACME advisor) and Dr. Guan Shiwei (CAACME member).



**D**r. Ke Wei, a scientist in corrosion and materials science, was born in 1932. He graduated from the Department of Metallography and Heat Treatment at Beijing University of Iron and Steel Technology in 1957. He had been working in IMR, the Institute of Metal Research, CAS, and then he, as a visiting scientist, worked at National Physical Laboratory in UK from 1979-1982. From then, he had served successively as associate professor, professor, and director of the Institute of Corrosion and Protection of Metals, CAS.

In his early years, he had been carrying on the developing superalloy and the research for high temperature fatigue. In 1981 working with Dr. B. F. Dyson in National Physical Laboratory, UK, he put forth some new conceptions in the field of creep-fatigue

interaction, which was based on the observation that fatigue prestrain induced cavity promoted creep in superalloy.

Recent years he focuses his attention on the interaction between localised corrosion and strain at crack tip in corrosion fatigue. Some work on environmental sensitive fracture, corrosion resistant alloys and coating has been completed. He was the team leader of several government funded (Chinese National Science Foundation) programs to acquire a system for remote microscopic stress/strain mapping. He and his group developed a speckle-interferometry (SPI) system for measuring strain distribution in sub-millimeter areas on metal surfaces. The availability of this technology provides online and instantaneous information of local deformation in corroding media where other technologies can not be used. The study of electrochemical and mechanical interaction using the SPI technology has become one of the main directions of the Institute of Corrosion and Protection of Metals (ICPM). He also works as a senior adviser and takes part in the National fundamental Research Program “Environmental Behaviour and Failure Mechanism of Materials”.

He is author and co-author of more than 200 scientific publications and books. He has supervised more than 30 graduate students. He has been awarded the National Prizes for Science and Technology Progress several times and Award of CAS for research student supervisor. He was a founding member of the Institute of Corrosion and Protection of Metals, the State Key Laboratory for Corrosion and Protection and the National Corrosion Engineering Centre.

He was elected as a member of Chinese Academy of Engineering in 1997.

At present, he is the chairman of Academic Committee of IMR and the chairman of Chinese Society for Corrosion and Protection. He is The Editorial Board member of Acta Metallurgica Sinica. Recently he is invited as a representative to Editorial Panel of the international journal ‘Materials Science and Technology’ and the member of International Corrosion Congress.



**S**hiwei William Guan received in 1983, at the age of eighteen, his B.Eng. Degree in Chemical Engineering and Corrosion from the Nanchang Institute of Aeronautical Technology. In 1986, he received his M.Eng. Degree in Materials Science and Corrosion from the Institute of Metal Research the Institute of Metal Corrosion and Protection Research of the Chinese Academy of Sciences in China. Between 1986 and 1988, he was a joint Ph.D. student of Tsinghua University and the Chinese Academy of Sciences, studying with Academician SHI, Changxu and Academician LI, Hengde. During this time period, he also worked at the National Natural Science Foundation of China (NSFC), as the Assistant to Vice Chairman SHI, Changxu. In 1988, he became then the Centennial Scholar at McMaster University in Canada and the last student of Professor Walt Smeltzer. He received his Ph.D. in Materials Engineering and Corrosion from McMaster in 1993. Since then Dr. Guan has been working and is currently the Vice President of R&D and International Business at Madison Chemical Industries, Inc. Madison Chemical is one of the PCI Magazine Top 100 Leading Manufacturers in North America and the world leader for infrastructural coatings, specializing in 100% solids polyurethane, epoxy, and other high performance corrosion protective coatings.

Dr. Guan is the author or co-author of numerous journal papers and conference presentations on 100% solids polyurethane coatings technology and has been known today as the world leader in 100% solids polyurethane coatings technology. He developed many coating systems that are widely used by the international industries (in North America particularly) such as underground steel storage tanks, water and wastewater pipelines, and utility power poles. Dr. Guan developed the latest coating technology which resulted in the establishment and addition of Part V to UL 1746 - an international standard for underground fuel storage tanks. He also services as a member of AWWA C222 technical committee and actually drafted this AWWA specification for polyurethane coatings for steel pipe and fittings. Recently Dr. Guan has worked jointly with the U.S. Navy in developing the "NAVYTHANE" polyurethane technology for the U.S. Navy ship tank applications.

Dr. Guan is a member of the Editorial Advisory Board for the U.K. journal of "Anti-Corrosion Methods and Materials", a member of the Standards Technical Panel (the former Industrial Advisory Committee IAC) for Underwriters Laboratories, Inc., and a member of the special standards task group of Underwriters Laboratories of Canada for underground storage tanks, the Industrial Advisor for the Corrosion and Surface Technology Laboratory of the Hong Kong Polytechnic University, and an instructor of the Appalachian Underground Corrosion Short Course at West Virginia University, U.S.A. He is an executive member of the Toronto Society for Coatings Technology and a member of New York Academy of Sciences, NACE International, ASTM, SSPC, Electrochemistry, the Chinese Professional Association of Canada, and the Chinese American Association of Corrosion & Materials Engineers. Dr. Guan's biography has been shown in International Who Is Who Professionals (1998), Who Is Who in Polymers and Plastics (1999), and International Who is Who in Executive Management (2000).

Dr. Guan presented the CAACME recommended keynote speech at the 2<sup>nd</sup> China Corrosion Control International Conference in Beijing in November 2002. He will be attending and presenting a talk at the pipeline coating session of NACE 2003 Corrosion Conference in San Diego.

- Feng Gui

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## 7. CAACME 2003 Annual Meeting in San Diego, California

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The CAACME 2003 Annual Meeting is under preparation. The outline of this meeting is provided here. See you in San Diego!

- Time: March 19, 2003, Wednesday Evening
- Location: San Diego Marriott Hotel Conference Room (To be confirmed)
- Business meeting: 5:30 PM – 6:30 PM open to board members and advisors
- Social: 6:30 PM -7:30 PM open to all members, friends, and family members
- Dinner: 7:30 PM -9:30 PM

- Feng Gui

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