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Texas Center for Superconductivity
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Education:

B.S.	Cheng-Kung University	Taiwan, ROC	1958-1962
M.S.	Fordham University	Bronx NY	1963-1965
Ph.D.	University of California	San Diego CA	1965-1968

Thesis Advisor(s): Bernd T. Matthias

Employment History:

Founding Director, Institute for Advanced Study, Hong Kong University of Science and Technology, 2006-present
Executive Director, Texas Center for Superconductivity at the University of Houston, 2005-present
Convener, Heads of Universities Committee, Hong Kong, 2003-2004
President, Hong Kong University of Science and Technology, 2001-present (voted the best university president in Hong Kong for overall performance in 2002 and 2003; secured more than HK\$500 million for HKUST from the Government and industry)
Principal Investigator, Lawrence Berkeley National Laboratory, 1999-present
Director, National Science Foundation Materials Research Science and Engineering Center on Advanced Oxides and Related Materials at the University of Houston, 1996-1997
Visiting Miller Research Professor, University of California, Berkeley, 1991
Director, Texas Center for Superconductivity at the University of Houston, 1987-2001
T. L. L. Temple Chair of Science, University of Houston, 1987-present
M. D. Anderson Chair of Physics, University of Houston, 1987-1989
Director, Solid State Physics Program, National Science Foundation, 1986-1987
Director, Space Vacuum Epitaxy Center, NASA/UH, 1986-1988
Director, Magnetic Information Research Laboratory, University of Houston, 1984-1988
Professor of Physics, University of Houston TX, 1979-present
American Physical Society, Division of Solid State Physics, Teller, 1976
Los Alamos Scientific Laboratory, Los Alamos NM, Visiting Staff Member, 1975-1980
Professor of Physics, Cleveland State University OH, 1975-1979
Associate Professor of Physics, Cleveland State University OH, 1973-1975
Stanford University, Stanford CA, Hansens Physics Laboratory, Visiting Scientist, Summer 1973
Argonne National Lab, Argonne IL, Resident Research Associate, Summer 1972
Assistant Professor of Physics, Cleveland State University OH, 1970-1973
Member, Technical Staff, Bell Labs, Murray Hill NJ, 1968-1970
Research Assistant, University of California, San Diego CA, 1965-1968
Teaching Assistant, Fordham University, Bronx NY, 1963-65
Second Lieutenant, Nationalist Chinese Air Forces, 1962-1963

Honors and Awards:

Foreign Member, Russian Academy of Engineering, 2005
Foreign Member, Chinese Academy of Sciences (PRC), 1996
Fellow, Texas Academy of Sciences, 1992
Member, Electromagnetic Academy, 1990
Member, American Academy of Arts and Sciences, 1989
Member, National Academy of Sciences, 1989
Member, Third World Academy of Sciences, 1989
Royal Society for the Encouragement of Arts, Manufacturers, and Commerce (RSA), 1989
Member, Academia Sinica (ROC), 1988
American Association for the Advancement of Science (AAAS), 1987
Fellow, American Physical Society, 1978

One of 100 Influential Alumni, University of California, San Diego, Alumni Association, 2009

Prize Ettore Majorana - Erice - Science for Peace 2007, Ettore Majorana Foundation and Centre for Scientific Culture, awarded 2008
Lifetime Achievement Award, Chinese Institute of Engineers (CIE-USA), 2008
Cha Distinguished Chair, Zhejiang University, Hangzhou, China, 2006
Achievement Award, Chinese Professional Club, 2006
Distinguished Lectureship sponsored by Applied Materials, Inc., National Cheng Kung University, Tainan, Taiwan, 2005
Cohen-Ofer Distinguished Lectureship on Experimental Physics, Hebrew University, Jerusalem, Israel, 2004
Invited Contributor, *Chemical & Engineering News* 80th Anniversary Special Issue on the Elements, 2003
Distinguished Lectureship, Taiwan Semiconductor Manufacturing Corporation, 2003
Distinguished Lectureship, Chien-Shiung Wu and Luck C. L. Yuan Natural Science Foundation, 2003
Distinguished Achievement Award, Association of American-Chinese Professionals (AACP) Foundation, 2001
John Fritz Medal, American Association of Engineering Societies, 2001
Esther Farfel Award, University of Houston, 2000
One of the 20th Century's 100 Most Influential People in Gas and Electricity, *Century of Power, Hart Energy Markets*, 2000
Invited Contributor, National Millennium Time Capsule, 2000
Sharif University Award, 1999
Houston Hall of Fame Award, George Bush Intercontinental Airport, 1999
Distinguished Scientific Achievement Award, Washington DC Metropolitan Association of Chinese American Professionals, 1998
Bernd Matthias Prize, International Conference on Materials and Mechanisms of Superconductivity, High Temperature Superconductors, 1994
Superconductivity Award of Excellence in Scientific Accomplishments, World Congress on Superconductivity, 1994
St. Martin de Porres Award, 1990
Best Researcher in the US, *US News and World Report*, 1990
Texas Instruments Founders' Prize, 1990
Medal of Scientific Merit, World Cultural Council, 1989
International Prize for New Materials, American Physical Society, 1988
Comstock Award, National Academy of Sciences, 1988
Distinguished Alumnus Award, Cheng-Kung University, 1988
Houston Hall of Fame Award, Greater Houston Convention and Visitors Bureau, 1988
National Medal of Science, 1988
NASA Achievement Award, 1987
Leroy Randle Grumman Medal for Outstanding Scientific Achievement, Grumman Corporation, 1987
Physical and Mathematical Science Award, New York Academy of Sciences, 1987
Distinguished Alumnus Award, University of California at San Diego, 1987
Sigma Xi Research Excellence Award, 1987
Faculty Research Award, University of Houston, 1987
Achievement Award, Chinese American Academic and Professional Association, 1987
Honorary Citizen of the State of Texas, 1987
Honorary Citizen of the City of Houston, 1987

Ten Honorary Doctorates, six Honorary Professorships and one Honorary Presidency at universities worldwide

Recent Research Highlights:

- With colleagues, achieved stable superconductivity at 93 K (-180 °C) in YBCO, above the critical temperature of liquid nitrogen (-196 °C) in January 1987.
- Group continues to find new compounds with high transition temperatures.
- Obtained stable superconductivity at the record high temperature of 164 K (-109 °C) in Hg-1223 in 1993.
- Presently actively engaged in the basic and applied research of high temperature superconductivity; research extends beyond superconductivity to magnetism and dielectrics.
- Today, group is regarded as one of the best in the world in searching for and understanding new superconductors.

Lab Facilities/Expertise: Experimental Solid State Physics: Superconductivity, Magnetism and Dielectrics

Relevant Publications:

- “Evidence for Superconductivity above 40 K in the La-Ba-Cu-O Compound System,” C. W. Chu, P. H. Hor, R. L. Meng, L. Gao, Z. J. Huang and Y. Q. Wang, Phys. Rev. Lett. 58, 405 (1987).
- “High Pressure Study of the New Y-Ba-Cu-O Superconducting Compound System,” P. H. Hor, L. Gao, R. L. Meng, Z. J. Huang, Y. Q. Wang, K. Forster, J. Vassiliou, C. W. Chu, M. K. Wu, J. R. Ashburn and C. J. Torng, Phys. Rev. Lett. 58, 911 (1987).
- “Superconductivity up to 164 K in $\text{HgBa}_2\text{Ca}_{m-1}\text{Cu}_m\text{O}_{2m+2+\delta}$ ($m = 1, 2,$ and 3) Under Quasihydrostatic Pressures,” L. Gao, Y. Y. Xue, F. Chen, Q. Xiong, R. L. Meng, D. Ramirez, C. W. Chu, J. H. Eggert and H. K. Mao, Phys. Rev. B, “Rapid Communications” 50, 4260 (1994).

Over 570 total publications