

# Sunney I. Chan

## *Curriculum Vitae*

### **Personal**

Birthdate: October 5, 1936

Birthplace: San Francisco, California

Married: July 1964 to Irene Yuk-Hing Tam

Children: Michael Kenneth

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### **Education**

1961 Ph.D. - Chemistry, University of California, Berkeley, California.

Doctoral Dissertation: The Nature of the Ring Puckering Vibration and Its Effects on the Far-Infrared and Microwave Spectra of Trimethylene Oxide.”

Research Director: Professor William D. Gwinn

1957 B.S. - Chemical Engineering, University of California, Berkeley.

## **Professional Experience**

2016-2019	Honorary Chair Professor of Chemical Engineering, National Taiwan University of Science and Technology
2013-2023	Honorary Chair Professor of Bioinorganic Chemistry, National Chung-Hsing University
2012-2014	Honorary Chair Professor, National Ping-Tung University of Education
2011-2021	Distinguished Visiting Fellow, Institute of Chemistry, Academia Sinica
2010-2022	Distinguished Research Chair Professor, National Taiwan University
2007- 2010	Chair Distinguished Professor of Chemistry, National Taiwan University
2006-2011	Chair Distinguished Research Fellow, Institute of Chemistry, Academia Sinica
2007-2009	Honorary Professor, National Cheng-Kung University, Taiwan
2004-2005	Acting Director, Institute of Chemistry, Academia Sinica
2001-2003	Director, National Research Program of Genomic Medicine, National Science Council, Republic of China
2002- George Grant	Hoag Professor of Biophysical Chemistry, Emeritus, California Institute of Technology
1999-2003	Academic Vice President, Academia Sinica
1997-1999	Director, Institute of Chemistry, Academia Sinica
1997-2006	Distinguished Research Fellow, Institute of Chemistry, Academia Sinica
1996-2021	Honorary Professor, Chinese University of Hong Kong, Hong Kong
1994-96	Visiting Professor, Chinese University of Hong Kong, Hong Kong
1992-2002	George Grant Hoag Professor of Biophysical Chemistry
1991-94	Chairman, Physical Biochemistry Study Section, National Institutes of Health
1989-94	Executive Officer in Chemistry
1987-89	Chairman of the Faculty, California Institute of Technology
1981	Visiting Professor, Stanford University, Stanford, California
1980-83	Master of Student Houses
1978-80	Executive Officer in Chemistry
1977-78	Acting Executive Officer in Chemistry
1976-92	Professor of Chemical Physics and Biophysical Chemistry California Institute of Technology
1976	Visiting Scholar, University of California, Berkeley
1969	Visiting Professor, Oxford University

1968-76 Professor of Chemical Physics, California Institute of Technology  
1964-68 Associate Professor of Chemical Physics, California Institute of Technology  
1963-64 Assistant Professor of Chemical Physics, California Institute of Technology  
1961-63 Assistant Professor of Chemistry, University of California, Riverside  
1960-61 National Science Foundation Postdoctoral Fellow in Physics, Harvard University  
1985 (summer) Instructor of General Electric Company's Far-western Science Teachers Program  
1957-58 Graduate Teaching Assistant in Chemistry, University of California, Berkeley  
1956 (summer) Student, Engineer, Tidewater Oil Company, Avon, California

### **Other Experience**

2013-2019 Editorial Board, Journal of Enzyme Research  
2012- Editorial Advisory Board, Journal of the International Academy of Physical Sciences  
2012-2015 International Advisory Board, Journal of the Chinese Chemical Society located in Taipei  
2012-2015 Editorial Board, Journal of Inorganic Biochemistry  
2010-2013 Advisor to the Dean of Science, Chinese University of Hong Kong  
2010-2012 Editorial Board, *Global Journal of Inorganic Chemistry*  
2009 Editorial Board, *Enzyme Catalysis*  
2007- 2010 Editorial Advisory Board, *Journal of Bioinorganic Chemistry*  
2007 Member, Visiting Committee, Department of Biochemistry and Department of Biology, The Chinese University of Hong Kong  
2007 Chair, International Advisory Panel, School of Biological Sciences, Nanyang Technological University, Republic of Singapore  
2005-2010 President, National Office, Phi Tau Phi Honorary Society of America  
2005-2007 Executive Council, Academia Sinica  
2003-2008 Board of Directors, The Chemical Society Located in Taipei  
1999-2006 Trustee, Croucher Foundation, Hong Kong  
2000-2004 Committee on the Presidential Science Prize, Republic of China  
2000-2002 National Science and Technology Board, Republic of China  
2000 International Advisory Board, Institute of Materials Research, National University of Singapore  
1998 Chair, Visiting Committee, University of Virginia

1998-2001 President, Biophysical Society, Taipei

1995-1997 Member, External Review Committee, Department of Chemistry, Ohio State University

1996-98 Board of Directors, Caltech Y

1996-98 Associate Editor, *Journal of the American Chemical Society*

1996-1997 External Review Panel - National High Magnetic Field Laboratory

1996-1997 Member, National Cancer Institute Initial Review Group E

1995-97 Member, Multidisciplinary Special Emphasis Panel, DRG, National Institute of Health

1995-98 Member, Board of Scientific Counselors for the National Center for Research Resources

1995-2000 Member, Medical Biotechnology Action Committee, Academia Sinica

1994-95 Member, Caltech Task Force on Core Curriculum

1994-97 Member, Advisory Committee, Institute of Chemistry, Academia Sinica

1993-94 Section Editor, *Encyclopedia of NMR*, John Wiley & Sons, Inc.

1992-93 Chair, Board of Directors of Caltech Y

1992- Chair, Caltech Administrative Committee on Hazardous Chemical Safety

1995-2000 Member, Advisory Committee, Institute of Biological Chemistry, Academia Sinica

1989-93 Consultant, Division of Research Grants, U.S. Public Health Service (Chair, Physical Biochemistry Study Section - 1992-93)

1989-95 Member, Biotechnology Advisory Committee, Hong Kong University of Science and Technology

1989-94 Member, Science Advisory Committee, Hong Kong University of Science and Technology

1988-90 Chairman, Caltech Centennial Steering Committee

1988- Chairman of the Board, Chinese-American Chemical Society

1988- Member, Advisory Committee, Institute of Molecular Biology, Academia Sinica

1987-92 Chairman of the Board and Scientific Advisor, MediTrans, Inc.

1986 Chairman of the Visiting Committee, University of Virginia

1986-95 Member of the Scientific Advisory Board, Vestar Corporation

1985-86 Chair, Ad Hoc Committee on the Undergraduate Core Curriculum, Caltech

1984-86 Consultant, Cardiovascular Devices, Irvine, California

1983-88 Member of the Editorial Board, *Inorganica Chimica Acta*

1983-86 Consultant, Allergan, Irvine, California

1983-93 Associate Editor, *Journal of the American Chemical Society*

- 1982-87 Member of the Editorial Board, *Journal of Biological Chemistry*
- 1982 Chair, Visiting Committee, Carnegie Mellon University
- 1981-89 Member of the Biotechnology Advisory Committee, Stanford Synchrotron Radiation Laboratory
- 1979-80 Chairman, Gordon Conference on Physical Chemistry of Biopolymers
- 1979-88 Director, Southern California Regional NMR Facility
- 1977 Member of APS Planning Committee for 1978 Joint Meeting of APS and Biophysical Meeting
- 1976-78 Consultant, McGaw Laboratories, Irvine, California
- 1976 National Science Foundation Advisory Panel, Division of Physiology, Cellular and Molecular Biology
- 1976 Member of Chemistry Review Committee, University of California, Berkeley
- 1975- Consultant, Division of Research Grants, U.S. Public Health Service
- 1974-78 Consultant, Merck Sharp and Dohme Laboratories, Rahway, New Jersey
- 1974-79 Consultant, Procter and Gamble Company, Miami Valley Laboratories, Cincinnati, Ohio
- 1970-74 Consultant, Division of General Medical Sciences, U.S. Public Health Service (Member, Biophysics and Biophysical Chemistry B Study Section)
- 1970 Associate Editor, *Annual Review of Magnetic Resonance*
- 1968 Member of Editorial Board, *Applied Spectroscopy*
- 1963-64 Consultant, Unified Science Associates, Inc. Pasadena, California

### **Memberships in Professional Societies**

American Association for the Advancement of Science (*Fellow*)

American Chemical Society

Chinese American Chemical Society

Chinese Chemical Society

American Physical Society (*Fellow*)

American Society of Biochemistry and Molecular Biology

Biophysical Society (*Fellow*)

Biophysical Society of Taiwan

Protein Society

International Society of EPR

International Society of Magnetic Resonance (*Fellow*)

Tau Beta Pi

Sigma Xi

## Honors

2019-2020	Honorary Fellow, Chemical Research Society of India
2019	Hong Kong CityU Distinguished Lecture
2018	TASCO Lifetime Award Achievement in Chemistry
2018	Lifetime Achievement Award, Taiwan Society of Biological Inorganic Chemistry
2016	Lifetime Achievement Award, Taiwan Magnetic Resonance Society
2015	Acharya P.C. Ray Memorial Lecture Award in Chemistry, India Institute of Engineering Science and Technology, Shibpur, India
2012	N.C. Yang Memorial Lecture, International Society of Chinese Organic Chemists
2012	Professor Chau-Ting Chang Memorial Lecture, National Tsing Hua University
2011	Elected Fellow of the International Academy of Physical Sciences
2010	Elected Fellow of the American Academy of Arts and Sciences
2010	Rayson Huang Lectures, University of Hong Kong
2010	Choh Hao Li Lecture, National Taiwan University
2010	Speaker, Symposium on "Frontiers in Organic Chemistry", National Taiwan University
2009	Felicia Chen-Wu Memorial Lecture, Taiwan Biophysical Society
2008	Elected Fellow, International Society of Magnetic Resonance
2007	Academic Award, Chinese Chemical Society, Taipei
2007	K. T. Li Award in Science and Technology
2006	Signature Lecturer, 9 <sup>th</sup> International Symposium of Chinese Organic Chemists and 6 <sup>th</sup> International Symposium of Chinese Inorganic Chemists, Singapore
2006	Speaker, Golden Jubilee Forum on "Pathways to Creativity" in celebration of 50 <sup>th</sup> Anniversary of Hong Kong Baptist University
2005	Awarded 2005 "Best Paper" Prize of the Journal of the Chinese Chemical Society, ROC
2005	National Lecturer, Ministry of Education, Taiwan
2005	CBNet Award in Biophysics
2004	Elected Member of Academy of Sciences for the Developing World (TWAS)
2004	Elected Fellow of the Biophysical Society
2004	William C. Rose Award, American Society of Biochemistry and Molecular Biology

2003 Doctor of Science *honoris causa*, Hong Kong Baptist University

2003 Louis Pasteur Medal, Louis Pasteur Universite

2002 Baxter Lecturer, University of Northern Illinois

1999 Keynote Lecturer, IUPAC Meeting, Berlin

1999 Distinguished Service Award, Chinese American Faculty Association, Southern California

1998 Plenary Lecturer, Fifth International Symposium for Chinese Organic Chemists

1998 Randolph T. Major Memorial Lecturer, University of Connecticut

1997 Keynote Lecturer, 1997 Worldwide Organization of Young Chinese Chemists

1994 Richard M. Badger Teaching Prize

1993 Plenary Lecturer, Hong Kong Institution of Science and Technology

1993 Wilson T.S. Wang Distinguished International Professor

1992 Elected Fellow of the American Association for the Advancement of Science

1991 ASCIT Teaching Award

1991 Rosetta Briegel Barton Lecturer, University of Oklahoma

1990 Gold Medal Award, Chinese Chemical Society

1990 CAFA (Chinese American Faculty Association) Achievement Award

1989 Alpha Chi Sigma Lecturer, University of Iowa

1988 Elected Member of Academia Sinica

1987 Elected Fellow of the American Physical Society

1987 Welch Lecturer, Rice University

1987 W. Albert Noyes, Jr. Lecturer, University of Texas at Austin

1986 Fogarty Scholar-in-Residence, National Institutes of Health

1987 Advances in Chemistry Series Lecturer, University of Houston

1986 Cherry Emerson Lecturer, Emory University

1985 Elected Honorary Member, Caltech Alumni Association

1984 1984 Chan Memorial Lecturer, University of California Berkeley

1973 Reilly Lecturer, University of Notre Dame

1971 Progress Award of the Chinese Engineers' and Scientists' Association of Southern California

1968-69 John Simon Guggenheim Memorial Fellowship

1965-67 Alfred P. Sloan Fellow, California Institute of Technology

1960-61 National Science Foundation Postdoctoral Fellow in Physics, Harvard

University

- 1959-60 National Science Foundation Predoctoral Fellow University of California, Berkeley
- 1956-57 Howard Bruce Memorial Scholar University of California, Berkeley
- 1957 Department Citation, Chemical Engineering, UC Berkeley
- 1957 Elected to Phi Beta Kappa
- 1956 Elected to Tau Beta Pi Engineering Honorary Society

**Research Interests**

Physical biochemistry; structure and function of membrane proteins; magnetic resonance spectroscopy; X-ray spectroscopy; bioinorganic chemistry; protein folding; bioenergetics; molecular catalysis; methane oxidation; C1 chemistry.