A Biographical Sketch of Dr. Ta-You Wu

Compiled by Ting-Kuo Lee

1907 Sep. 29	Ta-You was born in Guangzhou, Guangdong (Canton), the only son of Jia-Erl Guan and Guo-Ji Wu.	1937	After the Second Sino-Japan War broke out, the family moved to the south western part of China.
1911 1921	Moved to Tianjin with uncle Yuan-Ji Wu and sity in Kur entered Nankai middle and high school. Peking, Tsi	Joined the Southwest Associated University in Kunming with many faculties from Peking, Tsing-Hua and Nankai universities.	
1925	In the second year of Nankai High School, Ta-You passed the entrance exam and accepted as an undergraduate student in the Mining Department of Nankai University	1941	To celebrate the 40th anniversary of Peking University, he began to write the book <i>Vibrational Spectra and Structure of Polyatomic Molecules</i> and finished it in 1939. Taught classical mechanics to a group of
1926	in Tianjin. Transferred to the Physics Department after the Mining Department was closed.	1741	senior students including Chen Ning Yang and Kun Huang.
1928	Met Miss Kuan Shih Yuan for the first time. She was a freshman in the Physics Department.	1942	Yang expressed his gratitude to Ta-You for "having initiated him into the field of symmetry laws and group theory in the Spring of 1942" in his letter to Ta-You on the day he was
1929	Graduated from Nankai University and stayed as a lecturer. Not only he taught modern physics and advanced mechanics but also studied	1945	notified by the Nobel Committee in 1957. In spring, Tsung-Dao Lee joined the class as a sophomore. Lee's performance was so out-
1931	quantum mechanics by self learning. Received a scholarship from a foundation in China to attend University of Michigan. In early September, Ta-You and Kuan Shih		standing that he was recommended by Ta-You as one of the two physics students to be sent to United States with government scholarship in 1946. The war ended in August.
	went to United States together by sea. Miss Yuan had a scholarship for Elmira College in New York.	1946	Represented the Academy to attend the Royal Society's celebration of Newton's three-hundred-year birthday in Britain. Afterwards Ta-
1932 1933	Earned a Master degree in June from University of Michigan. Earned his Doctorate and stayed to continue research. This year Ta-You published a paper, Low States of the Heaviest Elements, in Physical Review with his advisor S. A. Goudsmit. In this paper a generalized WKB method for a double well potential was developed. With this method he concluded that 5f state is lower in energy than 6d state in Uranium and pointed out the possible beginning of a 5f series of elements. A similar work and conclusion was reached later by Marie Goeppert-Mayer in a 1941 Physical Review paper. These works have helped Glenn T. Seaborg, 1951 Chemistry Nobel Laureate, to understand transuranium elements.		You returned to University of Michigan as a Visiting Professor and worked on the theory of nuclear scattering with Uhlenbeck.
		1947	Moved to Columbia University in the summer. Taught at both Columbia University and New York University.
		1948	Elected as a Member of Academic Sinica among the first 81 Academicians.
		1949 ~ 1963	Director of Theoretical Physics Group, National Research Council of Canada.
		1956	Received the Education Award from Ministry of Education, Republic of China.
		1957	Attended the first Convocation of Academicians in Taiwan and proposed the government to draft a plan for academic development. Elected as a Member of Canadian Royal So-
1934 1936	Returned to Peking University as a faculty. Got married with Kuan Shih.		ciety. Ta-You received the letters from C. N. Yang and T. D. Lee to thank for his teaching

	after they were announced as the winners of	1980	Mrs. Kuan Shih Yuan Wu passed away in
1961	the Nobel Prize in Physics. Dr. T. Ohmura visited NRC and began to write	1981	California at the age of seventy-two. Received the Outstanding Contribution Award
	a book together. <i>Quantum Theory of Scattering</i> was published in 1962 by Prentice-Hall.	1983 ~ 1994	from Sun Yet-Sen Education Foundation. President, Academic Sinica.
1962	Declined the offer as the President of	1983 ~ 1994 1984	Magsaysay Award from the Philippines.
1202	Academia Sinica from President Kai-Shek Chiang.	1985	Completed the "five-year development plan" for the Academy. The English edition of the
1963	Professor, Brooklyn Polytechnic Institute in New York.		book <i>Quantum Mechanics</i> was published by World Scientific.
1963 ~ 1976	Helped to re-establish the Institute of Physics in Academic Sinica. As a Director, Ta-You started the Institute by collaborating and sharing resources with the National Tsing Hua University and National Taiwan University.	1990 1991	The reorganization plan of Academia Sinica was approved by the legislature. This new organizational structure has laid down the foundation for the progress of Academia Sinica. Received the Honorary Degree of Science
1965 ~ 1978	Professor, State University of New York at Buffalo, USA.	1//1	from University of Michigan. President George Bush was also one of the recipients.
1966 ~ 1969	Chair, Department of Physics.	1992	Published the book, Relativistic Quantum
1967	Appointed as the Chairman of Committee for Science Development, National Security Council, until 1991. Proposed the government establish the National Science Council to promote science research in Taiwan. Six hundred millions NT was allocated in December for the Science Foundation and thus the beginning of Taiwan's scientific development.		Mechanics and Quantum Fields, coauthored with Professor W-Y. Pauchy Hwang. Received the first "Outstanding Contribution Award" from the Physical Society. After being away for forty-six years, returned to mainland China in May. The whole trip in China was accompanied by Professor T. D. Lee and several friends. The Honorary Degree
1967 ~ 1973	Minister, National Science Council.		of Science was awarded by Peking University
1968	Received the Outstanding Contribution Award from Chia Hsin Culture Foundation. Presented to the government a twelve-year		and then by Nankai University. During the visit, Ta-You met with many old friends and top government officials.
1969	national plan for the science development. Helped to set up institutes in several universities across Taiwan for electronics research.	1993	Received an Honorary Degree of Science from National Chiao Tung University, Hsin- chu, Taiwan and later from The Hong Kong Polytechnic University.
1970	Celebrated with the family for Mrs. Wu earning her Doctorate in Biophysics from University of Michigan at the age of sixty-two.	1994	In January retired from the Presidency of Academia Sinica and awarded the National Medal
1977	Published three physics text books in Chinese: Classical Mechanics, Quantum Mechanics	1005	for outstanding contribution to Taiwan's science development.
	and Atomic Structures, and Electromagne- tism. These are the first three books of the	1995	Honorary Degree of Science, National Cheng Kung University, Tainan, Taiwan.
	series of theoretical physics. The remaining books published a few years later include	1997	Honorary Degree of Science, National Tsing Hua University, Hsinchu, Taiwan.
	the topics of thermodynamics, kinetic theory	1998	Received Henry Fok Life Achievement Award.
	of gases, statistical mechanics and quantum mechanics.	2000 Mar. 4	Passed away in Taipei, Taiwan.
1978	The Physics Department of SUNY Buffalo	REFERENCES	
held a Retirement Symposium for Ta-You		[1] Shu-Ming Lai, True Words — A Biography of Ta-You Wu	

- [1] Shu-Ming Lai, *True Words A Biography of Ta-You Wu* (Mu-Mien Publisher Comp., Taipei, 1999) (in Chinese).
- [2] *Perfect Roll Model* (The Physical Society of the Republic of China, Taipei, 2001) (in Chinese).

1979 ~ 1983

mittee, Ministry of Education.

with many distinguished scientists attended.

Chair, Scientific Education Advisory Com-