

## [研究成果報導]

## 恭賀清華大學化學系胡紀如教授獲選 1999 年「第三世界科學院院士」

恭賀清華大學化學系教授暨中央研究院化學所研究員胡紀如，獲選 1999 年「第三世界科學院院士」。

「第三世界科學院」係於 1983 年由世界各地知名學者發起，並於 1985 年獲得聯合國支持而正式成立，其總部設於義大利迪港市，目前共有 543 位院士，分別來自 75 個國家，其皆為在第三世界工作或出生的傑出科學家，包括中央研究院院長李遠哲在內的多位諾貝爾獎得主，亦為該院之院士。該院的設立是為了遴選開發中國家內表現極為優異之科學家，其主要的宗旨為「提昇南半球國家的科學能力及表揚其在發展過程中的卓越表現」。

該院每兩年舉辦一次年會，其選舉院士之過程極為嚴謹，今年共有九十五位優秀人士被提名，經過選舉程序後，該院選出三十五名院士，分別為來自英國、美國、巴西、阿根廷、中國大陸、塞內加爾、印度等國家之傑出科學家，我國清華大學化學系教授暨中央研究院化學所研究員胡紀如博士，不僅名列其中，亦為三十五名院士中最年輕的三位之一。

胡紀如教授，美國史丹佛大學博士(1978-1982)，現任國立清華大學化學系教授暨中央研究院化學所研究員(1990 年迄今)，曾任美國約翰霍浦金斯大學化學系副教授(1982-1991)、世界化學聯盟有機命名委員(1989-1997)及該聯盟會士(2000)、美國華美化學學會會長(1991-1993)及國際科學儀器訓練班國家講習及課務主任(1992-1999)、南非(1997)、法國(1998)及英國(2000)等多所名校之訪問教授。胡教授長年從事研究工作，其結果獲國家及國際肯定，曾累獲本會 81、84 及 88 學年度之傑出研究獎、美國士朗獎、中華民國十大傑出青年、亞洲傑出青年化學家獎、世界十大傑出青年及第三世界科學院化學獎。

胡教授其專長為生物科技、基因工程、藥物開發、化學合成、矽化學及分解性高分子製備等領域，其發表逾 110 篇以上之科技論文於美、英、德、日等國之國際知名期刊中，並在世界多國發表演講逾 220 場。胡教授並擁有多項專利，包括美、英、德、法、瑞等國專利十四件，中華民國專利五件。近年來，胡教授專注於生物科技、基因工程與藥物開發等領域研究，在生物科技方面，其發展出 DNA 切割試劑可選擇特定序列之 DNA 進行切割，可應用於基因工程與疾病治療；另於藥物開發方面，則已成功的利用藥物設計之原理，發展出數種抗愛滋、抗腫瘤、抗病毒與抗菌之新藥，其中數種藥物已進行人體試驗。

Congratulations to Professor Reuben Jih-Ru Hwu of the Chemistry Department of the National Tsing Hua University & Research Fellow of the Institute of Chemistry of Academia Sinica. Professor Hwu is elected the 1999 member of the Third World Academy of Sciences.

The Third World Academy of Sciences (TWAS) is an autonomous international organization, founded in Trieste, Italy, in 1983 by a group of internationally renowned scientists. Its officially launched in 1985 by the former Secretary General of the United Nations. TWAS is related to the United Nations Educational, Scientific and Cultural Organization (UNESCO). TWAS represents the

best of science in the developing world, and its principal aim is to promote scientific capacity and excellence for sustainable development in the South.

TWAS currently has 543 members from 75 countries, including distinguished Nobel Laureates. TWAS has been electing outstanding scientists as its members who are either born or doing scientific research in the third world countries including many scholars from U.S.A., England, Germany, France, etc. The election of TWAS member is an extremely difficult process. This includes nomination by the host institute of the scientists and reviewing by the TWAS committee. It is followed by voting by all of the TWAS members around the world.

Prof. Reuben Jih-Ru Hwu received his Ph.D. degree from Stanford University (1978–1982). Now, he is the professor of the Department of Chemistry, National TsingHua University as well as the research fellow of the Institute of the Chemistry, Academia Sinica (1990–pres.). He had been an associate and assistant professor in the Chemistry of Johns Hopkins University, U.S.A. (1982–1991). He was elected as the President of the Chinese American Chemical Society (1991–1993), Associate Member of International Union of Pure and Applied Chemistry (IUPAC) Commission of Nomenclature of Organic Chemistry (1989–1997), and Fellow of IUPAC. He was also invited as Visiting Professors in several prestigious universities in South Africa (1997), France (1998), and U.K. (2000). The International Foundation for Science in Sweden authorized Taiwan to hold the International Scientific Instrument Technology Workshops annually. Between 1992–1999, Prof. Hwu has trained more than 140 researchers and technicians from more than 70 developing countries. He has also been serving as the Curriculum Director of the Workshop since 1996–1999.

He has received several awards including Stuart Pharmaceuticals Achievement Award, ICI Americas Ltd., 1986; Alfred P. Sloan fellows his, 1986–1990; Ten Outstanding Young Persons, Republic of China Junior Chamber, 1993; Distinguished Young Chemist Award, Federation of Asian Chemical Societies, 1992 and 1993; Outstanding Research Awards, National Science Council, Taiwan, 1994–1995; Outstanding Young Persons of the World for 1994 (in scientific and/or technological development), Junior Chamber International; Distinguished Research Awards, National Science Council, Taiwan, 1992–1994, 1995–1997, and 1999–2001; TWAS Award in Chemistry, 1997.

Prof. Hwu expertise in biotechnology, molecular genomics, drug design and synthesis, organosilicon chemistry, and polymer science. Since 1982, Prof. Hwu has published over 110 scientific papers in international journals and delivered more than 220 presentations world-wide. He also holds more than 18 patents in various countries.