## DOCTOR OF ENGINEERING
honoris causa

## Professor Ernest S. KUH

## CITATION

Mr Chancellor,

The continuous pursuit of knowledge is the cornerstone of university life. The realisation that learning is a lifelong process is the hallmark of the true academic. Professor Ernest KUH, one of the United States' most distinguished engineers, whom we honour today, has for over 45 years devoted himself to seeking knowledge through research, and assisting others to do so through his teaching.

After initial study at Shanghai Jiao Tong University, Ernest Kuh graduated in Electrical Engineering at the University of Michigan, Ann Arbor. He took his master's degree in Electrical Engineering at the Massachusetts Institute of Technology, and his PhD in Electrical Engineering at Stanford University. He joined Bell Telephone Laboratories as a member of the technical staff in 1952, where he benefited from his association with Professor Charles Desoer, a former classmate at MIT, whom he describes as a giant amongst electrical engineering educators.

It was another former classmate, Professor Donald Pedersen, who was instrumental in persuading Ernest Kuh to enter academic life. In 1956, he joined the Department of Electrical Engineering and Computer Sciences of the University of California at Berkeley, whose community he was to serve for 41 years.

Professor Kuh became renowned for his organisational skills and his effectiveness as a university administrator—skills which he modestly attributes to having learned from his predecessor as Department Chair, Professor Lotfi Zadeh. At the University of California at Berkeley, Ernest Kuh served as Chair of the Department from 1968 to 1972 and Dean of the College of Engineering from 1973 to 1980. During his deanship, the College continued to thrive despite increasing student enrollments and severe budgetary constraints. His recipe for success is summed up in his own words: "I am convinced that to make an academic department world-class, faculty members need to excel in teaching, research, and service to the university and the profession. My advice to young engineers is to be broad in one's interests, to place emphasis on lifelong learning, and to get involved. With that, one can compete world-wide in the present technological society to face the challenges of the information revolution."

His own outstanding contributions to research and teaching, as well as his fine administration capabilities, were recognised by the award of the American Associa-

## 葛守仁教授
之讚辭

監督先生：

好學不倦是大學生活的基石，真正的學者明瞭學無止境。我們今天要嘉許的葛守仁教授，是美國最傑出的工程師之一，過去45年來他埋首研究工作，孜孜不倦追求學問，並透過教學培育後學。

葛守仁早年就讀於中國上海交通大學，後於美國安亞伯密芝根大學電機工程學系畢業，接著又在麻省理工學院及史丹福大學分別取得電機工程學碩士及哲學博士學位。經麻省理工學院同窗Charles Desoer教授的介紹，葛守仁在1952年加入貝爾電話實驗室做研究。在他的眼裡，Desoer教授是電機工程學教育家中的巨人。

另一位促使葛守仁投身學術界的是他的同窗Donald Pedersen教授。1953年，葛守仁加入柏克萊加州大學電機工程及計算機科學系，接著便在該校服務了41年。

葛教授擅長大學行政工作，以卓越的組織能力與高效率見稱。他為人謙虛，對於別人的稱讚，往往只謙稱他的辦法都是從前任系主任Lotfi Zadeh教授那裡學來的。在柏克萊加州大學期間，他於1968至72年間擔任系主任；於1973至80年出任工學院院長。在他的院長任期內，學院學生人數有增無已，但經費卻遭大幅削減。然而，在他的領導下，學院不斷茁長。他將自己的成功要訣歸納如下："我深信一個學系要達到世界級水準，它的教研人員必須在教學和研究方面表現出色，對大學及其專業竭盡所能。我建議年青一代的工程師要擴闊自己的興趣，奉行終身學習和積極參與的人生哲學。只要具備以上條件，在這發展日新月異的社會裡，年青一代即使面臨資訊革命的重重挑戰，也可所向無敵。"

葛教授在1981年獲美國工程學教育協會頒發最高榮譽 —— Lamme Award，以表彰他在研究與教學上的傑出貢獻和卓越的行政能力。

葛教授屢獲殊榮，計有：1970年獲密芝根大學傑

tion for Engineering Education's highest honour, the Lamme Award, in 1981.

Professor Kuh's academic career has been crowned by numerous other fellowships and awards, including the University of Michigan Distinguished Alumnus Award in 1970; the Institute of Electrical and Electronics Engineers Guillemin-Cauer Award in 1973; the Alexander von Humboldt Senior Scientist Award in 1978; the IEEE Education Medal in 1981; the Japan Society for the Promotion of Science Award in 1981 and 1988; the IEEE Centennial Medal in 1984; the IEEE Circuits and Systems Society Award in 1988; and the Most Distinguished Chinese Scholar Award of the Society of Hong Kong Scholars in 1990. In 1996, he, Donald Pedersen and a former student, Ronald Rohrer, were awarded the Japan Foundation's prestigious C&C Prize for their contributions to computer-aided design in microelectronics.

Professor Kuh holds high honours in his profession, including Fellowships of the prestigious American Association for the Advancement of Science, the United States National Academy of Engineering and Academia Sinica, Taipei.

He has co-authored four major books—two of which were with Charles Desoer and one with Donald Pedersen—and authored or co-authored over 180 papers in the fields of circuits, electronics, networks, systems and computer-aided design.

He has held visiting professorships at universities in Denmark, Germany, Japan and the United Kingdom, and has honorary professorships at Nanjing, Peking, Shanghai Jiao Tong, Tianjin, and Tsinghua Universities, and the University of Electronics, Science and Technology in Chengdu. He has served on many academic advisory committees and boards, including those at MIT and Princeton. He has been a consultant to a number of industrial and governmental organisations, including IBM, General Motors, the National Science Foundation and the National Institute of Standards and Technology.

Professor Kuh was an advisor to our University from the earliest planning days, and has been a member of the Advisory Board for our School of Engineering as well as the Department of Electrical & Electronic Engineering since 1990. May I take this opportunity to express the University's gratitude to Professor Kuh for his assistance to us in our start-up years.

Mr Chancellor,

I have the honour to present, on behalf of the University, Professor Ernest S. Kuh, William S. Floyd Jr Professor Emeritus of Engineering and Professor in the Graduate School of the University of California at Berkeley, Academician, for the degree of Doctor of Engineering honoris causa.

出校友獎，1973年獲電機及電子工程師學會Guillemin-Cauer Award，1978年獲 Alexander von Humboldt 資深科學家獎，1981年獲電機及電子工程師學會教育獎，1981及1988年兩度獲日本學術振興會獎，1984年獲電機及電子工程師學會百年大獎，1988年獲電機及電子工程師學會電路及系統學會獎，1990年獲香港學者協會傑出華裔學者獎。於1996年與Donald Pedersen 和學生Ronald Rohrer 共同獲得著名的日本基金C＆C獎，這是表彰他們在微電子計算機輔助設計方面的貢獻。

享譽學術界的葛教授榮膺多個學院院士榮銜，他是美國科學促進學會院士、美國國家工程學院院士及中央研究院（台北）院士。

葛教授曾參與寫作四本專著，其中兩本與Charles Desoer合著，一本與Donald Pedersen一起寫成；發表的學術論文逾180篇，研究課題主要圍繞電路、電子、網絡、系統及計算機輔助設計。

葛教授是丹麥、德國、日本及英國多間大學的客座教授；也擔任過多間大學的名譽教授，其中包括南京大學、北京大學、上海交通大學、天津大學、清華大學及成都電子科技大學。

葛教授曾出任多間學府的學術顧問委員會成員，其中包括麻省理工學院及普林斯頓大學。

葛教授是香港科技大學創校初期的顧問，自1990年起更擔任工學院顧問委員會委員。葛教授也積極參與工業界和政府機構的顧問工作，其中包括 IBM、通用汽車、美國國家科學基金和美國國家標準及技術學院。

監督先生，葛守仁教授是William S. Floyd Jr講座名譽工學教授、柏克萊加州大學研究院教授及研究院院士。本人謹恭請閣下頒授榮譽工程學博士學位予葛守仁教授。