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[\[半導體\] 中研院卓以和院士因發明分子束磊晶技術被選入美國國家發明者名人堂](#)

[半導體] 中研院卓以和院士因發明分子束磊晶技術被選入美國國家發明者名人堂

卓以和院士因發明分子束磊晶技術 (MBE)，將於今 (2009) 年5月2日正式被選入美國國家發明者名人堂。用 MBE 技術製備逐次堆疊原子層的薄膜，可以非常精確地控制至原子的尺寸，且具有前所未見的電學和光學性質，可用來設計電子元件，如手機射頻開關、前端放大器及功率放大器等。

卓院士於1990年當選中研院院士，現任美國Alcatel-Lucent公司貝爾實驗室附屬半導體部門副總裁，他的研究領域為光電材料與裝置技術。卓院士曾獲之榮譽包括美國物理學會國際新材料獎 (International Prize for New Materials of the American Physical Society, 1982)、電氣化學學會固態科技獎 (Solid State Science and Technology Medal of The Electrochemical Society, 1987)、美國材料資訊學會世界材料會議獎 (World Material Congress Award of ASM International, 1988)、美國真空學會Gaede-Langmuir獎 (Gaede-Langmuir Award of the American Vacuum Society, 1988)、美國晶體生長協會國際晶體生長獎 (International Crystal Growth Award of the American Association of Crystal Growth, 1990)、美國國家科學獎 (美國當任總統柯林頓頒獎, 1993)、材料研究學會 (Material Research Society) Von Hippel 獎 (1994)、IEEE 1994 榮譽獎牌、美國富蘭克林研究所頒發的克瑞森獎章 (Elliott Cresson Medal of the Franklin Institute, 1995)、日本電腦與通訊基金會的電腦通訊獎 (Computer and Communications Prize of the C & C Foundation, 1995)、光學界最高榮譽W.E. Lamb獎章 (1999)、美國國家科技獎章 (美國當任總統布希頒獎, 2005)。

美國國家發明者名人堂選舉委員會每年都會選出創新技術發展的發明家，表彰他們對人類、社會及經濟發展的貢獻。卓院士是第二位入選美國國家發明者名人堂的華裔科學家，另一位是王安博士，因其在電腦發展的貢獻而獲選。

相關連結網站：<http://www.invent.org/2009induction/>

資料來源：

[中研院院訊2009/04/02](#)

[Semiconductor] Academician Alfred Y. CHO Inducted into the United States National Inventors Hall of Fame for His Contribution on Molecular Beam Epitaxy

Academician Alfred Y. CHO will be inducted into the United States National Inventors Hall of Fame on 2nd-May, 2009, at Silicon Valley, California for his invention of Molecular Beam Epitaxy (MBE). MBE is a process in which materials are layered atop one another—atom-by-atom within a vacuum—forming devices like transistors and lasers with sharp precision. The switches and amplifiers in cell phones that carry our conversations over radio frequencies are made using Molecular Beam Epitaxy, as are most of the lasers used in CD/DVD players and drives.

Dr. CHO was elected an Academician of Academia Sinica in 1990; he is the Adjunct Semiconductor Vice President of the Bell Labs., Alcatel-Lucent, U.S.A. His research field includes Electronic and Photonic Materials and Devices. Dr. CHO has been awarded the International Prize for New Materials of the American Physical Society (1982), Solid State Science and Technology Medal of The Electrochemical Society (1987), World Material Congress Award of ASM International (1988), Gaede-Langmuir Award of the American Vacuum Society (1988), International Crystal Growth Award of the American Association of Crystal Growth (1990), United States National Medal of Science (by President Clinton, 1993), Von Hippel Award of the Material Research Society (1994), The Medal of Honor of IEEE (1994), Elliott Cresson Medal of the Franklin Institute (1995), Computer and Communications Prize of the C & C Foundation, Japan (1995), W.E. Lamb Medal for Laser Science and Quantum Optics(1999), and the United States National Medal of Technology (by President Bush, 2005) .

To honor the inventors who achieve the great technological advances that accelerate human, social and economic progress, the Selection Committee of the National Inventors Hall of Fame Foundation selects inventors for induction annually. The only other person of Chinese origin who has been inducted into the US National Inventors

Hall of Fame is Dr. A. WANG for his pioneering work on computers.

Relevant website: <http://www.invent.org/2009induction/>

Reference:

[Academia Sinica Newsletter 2009/04/02](#)

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