

校園動態

緬懷施敏院士

終身講座教授施敏院士辭世，享壽87歲。陽明交大緬懷施敏的貢獻，於緬懷網站(<https://sites.google.com/nycu.edu.tw/simonsze>)供師生及外界追思留言，並於12月18日至29日設置追思禮堂，12月28日舉行施敏院士追思紀念會，供社會大眾及陽明交大師生前往緬懷其一生對學術及科技產業的貢獻。

施敏院士於電子與半導體元件領域的卓越遠見，對全球半導體產業以及人類科技文明進步做出了巨大的貢獻。雖然他已辭世遠行，但他永遠是我們學習的楷模，其精神必將永世長存。

緬懷 施敏 院士
國立陽明交通大學終身講座教授

In memory of Academician Simon M. Sze
Lifetime Chair Professor of National Yang Ming Chiao Tung University

追思紀念會

追思會
報名網站

A Floating Gate and Its Application to Memory Devices
By D. KAHNG and S. M. SZE
(Manuscript received May 16, 1967)

A structure has been proposed as permanent charge storage is possible at a distance from an electron source. A voltage is applied through an outer gate and charges are stored even after the voltage is removed to much lower back transport current of the order of $10^{12}/\text{cm}^2$ has been observed similar to a metal-insulator-semiconductor. Such a device functions as a memory with read-out features. The memory retention time is one hour. These preliminary results are under analysis.

It has been recognized for some time as that described by Shook and others utilizing switchable permanent memory material. Subsequent studies have shown, however, that the inherent speed of a ferroelectric material is limited by the speed of the ferroelectric material. The speed is limited by the ordered, near-ideal thin layer of a bistable device, the ferroelectric material. In addition, many ferroelectric materials exhibit disorder after many cycles of switching, which introduces some uncertainty in the memory retention time.

An alternative to a ferroelectric material is a field emission, which is a metal-insulator-semiconductor. Consider a metal-insulator-semiconductor structure of thickness T and a voltage V applied across it.

【追思禮堂】

時間：2023年12月18日(星期一)至12月29日(星期五) 上午9:00至下午4:30

地點：國立陽明交通大學光復校區 浩然圖書資訊中心B1 殷之浩紀念空間

【追思會】

時間：2023年12月28日(星期四)上午9時30分至中午12時

地點：國立陽明交通大學光復校區浩然圖書資訊中心B1 國際會議廳

報名表單連結：<https://forms.gle/9AKjSkLcDzQ1mDWF7>

【追思網站】

連結：<https://sites.google.com/nycu.edu.tw/simonsze>活動聯絡人：國立陽明交通大學電子研究所 陳小姐 patty@nycu.edu.tw

訂閱/取消 上期電子報

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