



# 中央研究院 地球科學研究所

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戚務正博士的實驗室使用地震波形來研究地震、颱風、河川過程、海嘯和其他天然及人工作用。我們使用的方法包括 (1) 反射地震學, (2) 寬頻地震波形反演, (3) 流體流動的溫度模擬。我們實驗室的主要目標是幫助台灣的新能源研究, 減少自然災害, 並了解造山作用。

我們實驗室正在尋找對地球具好奇心並希望通過基礎研究產生社會影響的新成員。

職位名稱: 博士/碩士生和大學部學生。我們找對下列領域之一感興趣或具有背景的人: (1) 地震學, (2) 海洋地質學/地球物理學, (3) 物理學, (4) 數學和 (5) 工程學。

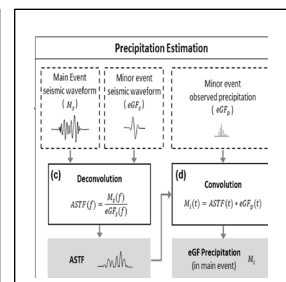
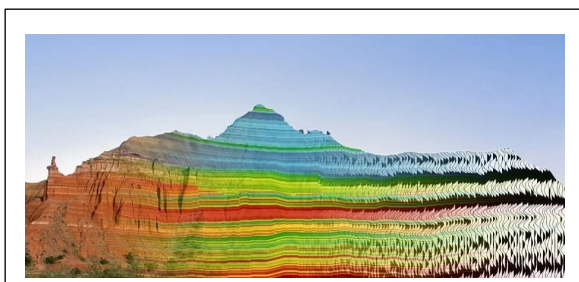
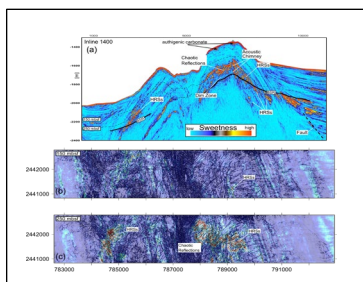
潛在研究項目:

1. 主動和被動震源數據的地震數據分析, 以求得二維地殼速度模型
2. 海底、海洋和河川流體流動和沈積物運動的過程。
3. 使用及維護新儀器以利進行地震學研究。
4. 學生和戚博士共同感興趣的任何項目。

工作地點: 台北南港中央研究院地球科學研究所

薪資: 符合科技部標準

如有興趣, 請聯繫戚務正博士 [wchi@sinica.edu.tw](mailto:wchi@sinica.edu.tw), [chi@earth.sinica.edu.tw](mailto:chi@earth.sinica.edu.tw), [chigeophysics@gmail.com](mailto:chigeophysics@gmail.com)



**Dr. Wu-Cheng Chi's** lab uses seismic waveforms to study earthquakes, typhoons, fluvial processes, tsunami, and other processes. The approaches we use include (1) reflection seismology, (2) broadband seismic waveform inversions, (3) temperature modeling of fluid flows. The main objectives of our lab are to help new energy research in Taiwan, to reduce natural hazards, and to understand mountain building processes.

**We are looking for new members in our lab who are curious about our Earth, and wish to make societal impacts through basic research.**

**Position titles:** PhD/Master students, and undergraduate part time helpers. We seek someone who are interested or has backgrounds in one of these fields: (1) seismology, (2) marine geology/geophysics, (3) physics, (4) math, and (5) engineering.

**Potential research project:**

1. Seismic data analysis of active and passive source data to derive 2D crustal velocity models
2. Source processes of fluid flows and sediment movements on the seabed, in the ocean, and along the rivers.
3. Seismic research using new instrumentations.
4. Any projects that are mutually interested by the student and Dr. Chi.

Working place: Institute of Earth Sciences, Academia Sinica, Nankang, Taipei Salary: In accordance with or higher than MOST's standard

If interested, please contact Dr. Wu-Cheng Chi [wchi@sinica.edu.tw](mailto:wchi@sinica.edu.tw), [chi@earth.sinica.edu.tw](mailto:chi@earth.sinica.edu.tw), [chigeophysics@gmail.com](mailto:chigeophysics@gmail.com)

