

機械工程系  
Department of  
Mechanical Engineering

綠能科技與光量測技術  
Green Energy Technology  
and Optical Measuring  
Technique

CCT實驗室  
CCT Lab.



O: 綜科 225-1  
#2075

L: 綜科 420  
#4819

丁振卿 教授  
Prof. Chen-Ching Ting

阿亨工業大學  
RWTH-Aachen

[chchting@ntut.edu.tw](mailto:chchting@ntut.edu.tw)

<http://cct.me.ntut.edu.tw/>

■ 研究領域

綠能科技、熱管散熱、航  
太空氣動力、光學技術、  
資料庫

■ 近期研究主題

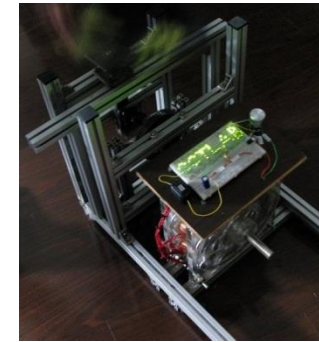
- 路面壓電發電系統
- 風力製冰與發電兩用機
- 全風場風力發電機
- 雙管熱管散熱器
- 鰭片式熱板散熱器
- 大面積光學即時氣體洩漏  
與火花偵測警報系統
- 二維流體顯像與定量分析
- 商用資料庫應用軟體

■ Research Area

Green energy technology, Heat pipe  
cooler, Aerodynamics, Optical  
technique, Database

■ Recent Topics

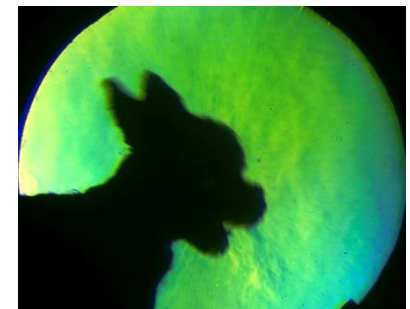
- Roadway mechanical energy  
harvesting and electric generation  
system
- Dual System of Wind Chiller  
Integrated with Wind Generator
- Full-Field Wind Electric Generator
- Dual-pipe heat pipe cooler
- Finned heat plate cooler
- Real-time auto-detection and alarm  
system for large area pipe gas  
leakage and spark
- Two-dimensional flow visualization  
and quantitative characterization
- Commercial database applications



路面壓電發電系統  
Roadway mechanical energy  
harvesting and electric generation



風力製冰與發電兩用機  
Dual System of Wind Chiller  
Integrated with Wind Generator



二維流體顯像與定量分析  
Two-dimensional flow visualization  
and quantitative characterization