



Phase Diagram and Thermodynamics Committee-
Materials Research Society - Taiwan

1. 13th Taiwan Phase Diagrams (TAPHAD) Conference:

Feb. 8th, 2025 at National Chung Hsing University, Taichung, Taiwan.

13th Taphad meeting

9 universities; 11 labs; 101 participants

2025 第13屆臺灣相圖會議議程 (13th TAPHAD)

日期:2025年2月8日(六) 地點:中興大學應用科技大樓地下室國際會議廳

時間	議程
08:30~09:30	報到及 張貼海報/繳交檔案
09:30~09:40	開幕/致詞
09:40~10:00	國立中興大學化工系陳志銘教授實驗室 余芝慧 電沉積Sn/Bi雙層結構於低溫焊接的應用
10:00~10:20	國立臺灣科技大學機械系蔡秉均教授實驗室 許奕翔賴威誠 Electrochemical Kinetics of Polycrystalline and Single-crystalline Ni-Mn-CO Cathodes for Li-ion Batteries <i>Ab initio</i> Study of Coating Materials for Interfacial Stabilization between Solid-State Electrolytes and Cathodes
10:20~10:40	國立臺灣科技大學材料系顏怡文教授實驗室 陳婷 儲氫合金鈦-鈷-錳三元系統於900°C下之相平衡研究
10:40~11:00	國立清華大學化工系陳信文教授實驗室 何承禧 Unexpected interfacial reactions in Co/GeTe and Ni/GeTe couples
11:00~11:20	逢甲大學材料系 沈育安教授 Study of Metallic Materials for Electronic Packaging
11:20~11:30	大合照
11:30~12:50	Lunch Time
12:50~13:30	Poster section (評審時間)
13:30~13:50	國立臺北科技大學機械系林哲宇教授實驗室 陳見佑(製科所) 316L不銹鋼與純銅之超音波焊接界面顯微結構分析
13:50~14:10	國立中興大學材料系宋振銘教授實驗室 楊薇管陳輝廷 Alloying effect on allotropic transformation and mechanical properties of Cu ₂ Sn ₃ 應用於銅-鋼接合之表面保護層及其移除研究
14:10~14:30	國立中正大學化工系王朝弘教授實驗室 張泰中 AlTiZrNb 相關系統高熵合金之電化學腐蝕行為研究
14:30~14:50	國立成功大學材料系林士剛教授實驗室 Shubhayan Mukherjee Investigating Crystallographic and Mechanical Characteristics of η and η' Phases of Cu ₂ Sn ₃ Subjected to Electric Current Stress
14:50~15:10	國立成功大學機械系劉高辰教授實驗室 陳世思 利用高通量計算熱力學設計新穎鋁合金用於積層製造
15:10~15:30	國立臺灣大學材料系吳欣潔教授實驗室 翁振蒼 Flexible and Self-Healing Thermoelectric Generators Based on Bi ₂ Te ₃ Crystals and Ni-bpyPTD Polymers for Wearable Energy Harvesting
15:30~15:50	Coffee Break Time
15:50~16:30	頒獎及 閉幕
16:30~	賦歸



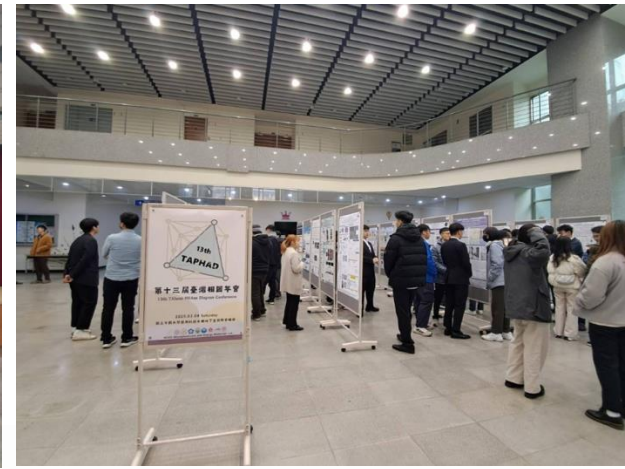
Photos of 13th TAPHAD



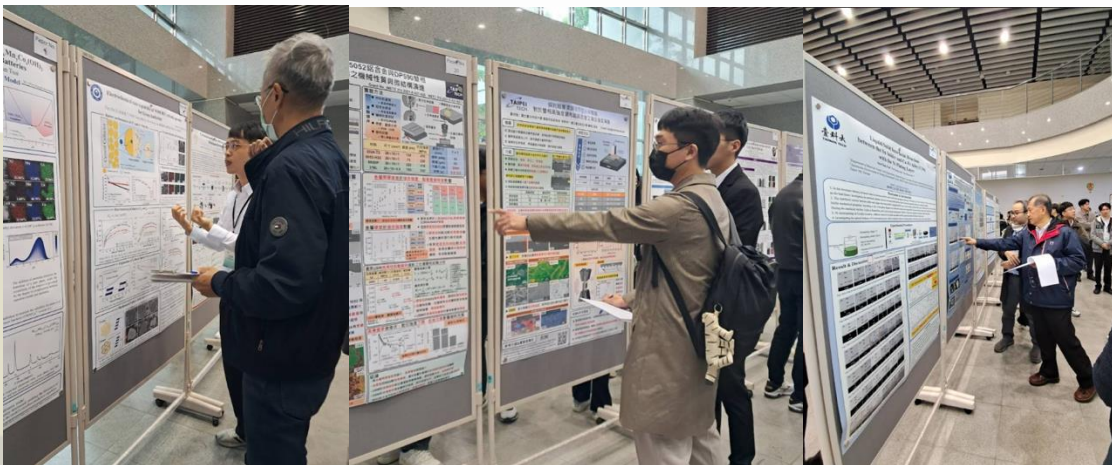
Opening remark



Oral competition



Poster competition



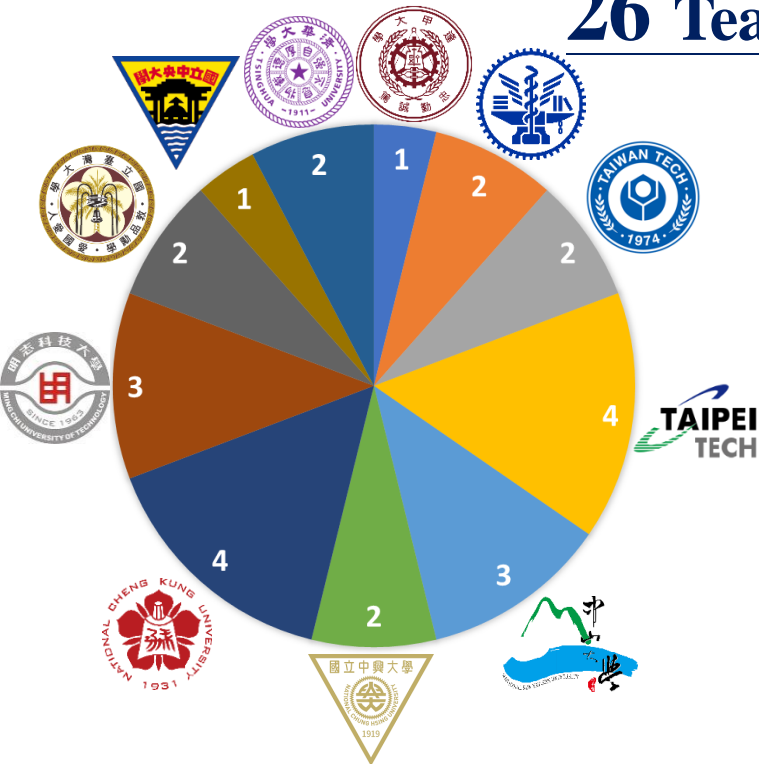
Q&A



Awards ceremony

2. 8th Materials Knowledge Contest – MRS Taiwan

26 Teams, 20+ Organizers Including Students



Preliminary round:

October 19, 2024

Selecting 9 teams for the final.

Held at NTUT and NCKU for the north/south regions.

Finals:

November 15, 2024

Held during the 2024 MRS-Taiwan Annual meeting, with live-streaming on Facebook's official page.

Organizers: PDTC MRS-Taiwan, NTUT, NCKU.

Co-organizers: ASUS, Catcher Tech. Co. Ltd., ASE Group, China Steel Corp., TSMC Education and Culture Foundation.

National Taipei University of Technology

National Cheng Kung University



Photos of Competition Finals

2024 第八屆材料學堂知識競賽

