附件 1-1、固體表面界達電位分析儀 (SurPASS3) 使用申請單

申請日期：　　年　　月　　日　　時

使用時間：　　年　　月　　日　　時 至　　年　　月　　日　　時

實驗條件：　1. 欲測條件：☐ Zeta potential　☐ IEP　☐ pH scan　☐ Dosage

2. 待測樣品：_____

3. 溶液樣類：_____

自備器材： 洗滌瓶(DI 水)，拭鏡紙，廢液杯，電解質溶液(KCl solution)，導電膠帶，pH 校正液等

---

1. 使用者對儀器之熟稔情形:
   - ☐ 首次使用需 Superuser 協助或教學;　　☐ 非首次使用仍需 Superuser 協助或教學;
   - ☐ Superuser 考核;　　☐ 可獨立操作之使用者;
2. ☐ **借用人在借用期間若因操作不當造成儀器或其配件損壞，並影響後續使用者之借用權益，需自行負擔相關賠償責任。**
3. 請閱讀精密儀器及常用設備管理辦法。
4. 使用前先於「**儀器使用紀錄簿**」登記，並於使用後確實清潔且將儀器及其配件歸位。若有違規，初犯將停權一個月，再犯則視情節加重處分至一學期、一年甚至永久停權，情節嚴重者更將連帶影響該實驗室之使用權限。
5. 使用後請確認無樣品因沖刷破損而遺留在機器內部。若有殘留，請反覆進行最後之清潔程序將樣品排除；若無法解決，請務必主動告知技術員以聯繫工程師處理，相關維修費用須由使用者自行負擔。
6. 消耗性器材(如: 紙、筆、氣體...等)由系採購，再由使用者按登記使用時間比例分擔。
7. 若使用 KCl 以外之其他電解質溶液，需事先經技術員同意。※禁止使用有機溶劑量測。
8. 本系使用者需繳儀器維修基金：300 元/小時(自操)，700 元/小時(委測/教學)。一年繳滿 20000 元者，則該年內不需再行繳交。關於儀器維修基金之繳交，本系使用者得於次一學年開始之兩月內繳清，未繳清前，不得再借用該儀器。
9. 校內外系：1000 元/小時，校外研究單位：2000 元/小時，校外非研究單位：2500 元/小時，以上費用另加收 330 元/小時(委測/教學)。
10. 如欲取消預約，請務必於預定時間 24 小時前通知技術員；否則將照常計費。
11. 嚴禁自行移動儀器之任何元件，由技術員或 Superuser 操作。違者，禁止再使用該儀器。

*本儀器目前負責之 Superuser 為 陳冠綸 (葉禮賢教授實驗室 T2-513)

*本儀器目前負責之老師為 葉禮賢 (E2-512)

☐ 本人已詳閱並同意上述內容並願遵守精密儀器及常用設備管理辦法。

借用人簽名：_____

指導教授簽名：_____

儀器負責老師意見及簽名：_____

外系或外校申請者，請化工系主任簽名：_____

Application Form for SurPASS 3 Electrokinetic Analyzer for Solid Surface Analysis

Application Date: _____ (YYYY/MM/DD, HH)

Testing Date: _____ (YYYY/MM/DD, HH) to _____ (YYYY/MM/DD, HH)

Analysis details： 1. Test condition: ☐ Zeta potential ☐ IEP ☐ pH scan ☐ Dosage

2. Sample description: _____

3. Solution type: _____

Self-provided items: Wash bottle (DI water), Kimwipes, Waste beaker, Electrolyte solution (KCl solution), Conductive tape, pH calibration buffers, etc.

---

1. User Proficiency:
   - ☐ First-time use (Superuser assistance or training required);
   - ☐ Not first-time use (Superuser assistance or training still required);
   - ☐ Superuser qualification;
   - ☐ Independent user (Proficient in standalone operation);
2. ☐ **If the instrument or its accessories are damaged due to improper operation during the rental period, affecting the rights of subsequent users, the borrower shall be held liable for all related compensation and repair costs.**
3. Please carefully read the instrument manuals and the regulations before use.
4. Please register in the **"Instrument Usage Logbook"** before use, and ensure the instrument and its accessories are properly cleaned and returned to their original positions after use. Any violation will result in a one-month suspension for the first offense; repeated offenses will lead to heavier penalties such as suspension for a semester, a year, or even a permanent ban, and severe cases may affect the access rights of the entire laboratory.
5. After use, please ensure that no sample fragments remain inside the instrument due to flushing. If any residue persists, please repeat the final cleaning procedure to clear it. If the issue remains unresolved, you must proactively notify the technician to contact an engineer; all associated repair costs shall be borne by the user.
6. Consumption goods such as paper and pens…, will be provided by the department with the fee shared by all the users and charged to each user based on the accumulated usages.
7. Prior approval from the technician is required if using electrolyte solutions other than KCl.
   ※ Organic solvents are strictly prohibited for measurement.
8. Rates for instrumentation usage:
   (1) Ch.E., NTUST users: NT$300 per hour (self-operation) and NT$700 per hour (assisted testing / instructional use). Maximum charges for an academic year: 20000 NT. NO registration will be allowed if the charged fees of the previous year are not paid off within the first two months of the new academic year.
   (2) Users from other NTUST departments: 1000 NT/ hr + NT$330 per hour (assisted testing / instructional use).
   (3) Users from other institutions: 2000 NT (research unit) + NT$330 per hour (assisted testing / instructional use). 2500 NTD (industry) dollars/hr + NT$330 per hour (assisted testing / instructional use).
9. DO inform the technician at least 24 hours prior to the scheduled time if you want to cancel the reservation. Otherwise, you will still be charged.
10. Moving any components of the instrument by yourself is strictly prohibited; all adjustments must be performed by the technician or a Superuser. Violators will be banned from using the instrument.

* The current Superusers of this instrument are Kuan-Lun Chen (Prof. Li-Hsien Yeh's Laboratory, T2-513);
* The professor currently in charge of this instrument is Li-Hsien Yeh (E2-512).

☐ **I have read and agree to the terms above and commit to complying with the management regulations for precision instruments and general equipment.**

User's Signature: _____

Advisor's Signature: _____

Comments and Signature from Professor-in-charge of the instrument: _____

Signature of the Chairman of the Department of Chemical Engineering: _____

(Required for applicants from departments/institutions other than Chemical Engineering)