粒徑暨界達電位分析儀(ELSZ-2000)使用申請單

No._____

申請使用時間： 年 月 日 時 至 年 月 日 時

實驗條件：欲測條件：□ Zeta potential □ 粒徑

樣品成份: _____ 溶液種類: _____

自備器材：洗滌瓶(水 or 酒精)、拭鏡紙、廢液杯、取樣品的吸管及注射針筒等
Cuvette (非有機溶劑可用 PP 材質，有機溶劑請用玻璃材質)

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或遺失，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. 實驗以正常實驗條件為限，參數設定不得高於儀器設限。電位量測不能使用水及醇類以外之其他溶液。

4. 進行電位量測前，樣品應先經 0.2 μm 濾膜過濾；如有其他特殊需求，請與儀器負責教授討論。

5. 使用前需先填寫借用單，並在儀器保養維護記錄簿上登記。使用後務必確實清潔並將儀器及其配件歸位。初次違規者，將停止個人使用權一個月；如再犯，將視情節加重處分，停權期間可能為一學期、一年，甚至永久停止使用。違規情節嚴重者，亦可能連帶影響該實驗室之使用權限。

6. 本系使用者需繳儀器維修基金：**500**元/半天（自操），**700**元/小時+**330**元/小時（委測/教學)。一學期年繳滿**20,000**元者，則該學年內不需再行繳交。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。

7. 校內外系：粒徑/界達電位 **800/1,000**（元/時)，費用另加收**330**元/小時（委測/教學)。

8. 預約期間若超過**24**小時不使用，應通知技術員，以增加儀器使用效率並減免使用費。

*本儀器目前負責之Superuser為 陳羿亘 (E2-516)

*本儀器目前負責之老師為 張家耀 (E2-513)

□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：_____

Registration form for ELSZ-2000 Analyzer

No._____

Scheduled date (M/D/Y):_____ Usage time: _____

Analysis model：□ Zeta potential □ Particle size

Experiment detail：sample composition : _____ solvent : _____

Essentials self-prepared by the user: Wash bottle, Dropper, Beaker, Kimwipes, Cuvette and needles (water solution use PP cuvette, organic solvent use glass cuvette)

1. **User's familiarity with the instrument:**
   - □ First-time user; requires assistance or training from a Superuser
   - □ Not a first-time user but still requires Superuser assistance or training
   - □ This session will be evaluated by a Superuser
   - □ Qualified to operate the instrument independently
2. During the loan period, if the borrower causes damage to or loss of the instrument or its accessories due to improper operation—thereby affecting subsequent users—the borrower shall bear full responsibility for compensation.
3. The setting of all parameters can't exceed the instrument's limits. Except for water and alcohols, all solvents can′t be used for zeta measurement.
4. Sample Preparation Before performing potential measurements, samples must be filtered through a 0.2 μm membrane filter. For any other special requirements, please consult with the Professor-in-Charge of the instrument.
5. Before use, a application form must be completed and the usage must be recorded in the instrument maintenance logbook. After use, be sure to thoroughly clean the equipment and return it and its accessories to their proper places after use. First-time offenders will have their individual usage privileges suspended for one month; repeat offenders will face more severe penalties depending on the circumstances, with suspensions ranging from one semester to one year, or even permanent suspension. Serious violations may also result in the revocation of the laboratory's usage privileges. Other violations will be handled in accordance with departmental regulations.
6. Rates for instrumentation usage:
   (1) Ch.E., NTUST users: NT$500 per half day (self-operation)；NT$700 per hour + NT$330 per hour (assisted testing / instructional use). Maximum charges for an academic year: 20000 NT dollars. 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. The total annual cost of N_2 gas and liquid nitrogen is allocated and paid by the laboratories according to their usage proportion.
   (2) Users from other NTUST departments: Size/Zeta NT$800/ NT$1000 per hour + NT$330 per hour (assisted testing / instructional use).
7. DO inform the technician within 24 hours of the scheduled time if you want to cancel the reservation. Otherwise you will still be charged.

*The current Superusers of this instrument is Yi-Syuan Chen (E2-516)

*The professor currently in charge of this instrument is Jia-Yaw Chang (E2-513).

□ I have read and agree to the above terms and am willing to comply with the regulations for the management of precision instruments and general equipment.

Borrower's Signature: _____

Advisor's Signature: _____

Comments and Signature of the Responsible Faculty Member: _____

For applicants from other departments or institutions, please obtain the signature of the Chair of the Department of Chemical Engineering: _____