

NCNR Small Angle Scattering and Reflectometry Summer School
June 26 – 30, 2006
Final Schedule

Monday, June 26

- 7:30** Bus leaves Hotel
- 8:00 - 8:30** Registration
- 8:30 - 9:00** Welcome, Coffee and Tea Available
-Paul Butler – Welcome and overview of week (5min)
-Student introductions (15min)
-Lisa Poole “How to Get Reimbursed” (10min)
- 9:00 - 9:15** Why Diffraction, Why Neutrons? - **Joe Dura**
- 9:15 - 10:00** Elements of Neutron Diffraction – **Norm Berk**
- 10:00 - 10:30** Coffee and Tea Break
- 10:30 - 11:00** Health Physics Instruction – **David Brown**
- 11:00 - 11:30** Basic Scattering at Small Q in Different Geometries: Small Angle Neutron Scattering (SANS) and Neutron Reflectometry (NR): Elementary Theory and Practice with Simple Illustrative Examples – **Paul Butler**
- 11:30 - 1:00** Lunch
- 1:00 - 2:30** Facility Tours (6 groups of 6 students each)
- 2:30 – 6:00** Brief introduction followed by experiments SANS A, B, C or NR A, B, C
---- Coffee and Tea Break to be taken when there is a natural break
- 6:00** Recess

Tuesday, June 27

- 8:30** Bus leaves Hotel
- 9:00 - 9:30** Lecture on Analysis of SANS Data – **Steve Kline**
- 9:30 - 10:00** Lecture on Analysis of NR Data- **Paul Kienzle & David Worcester**
- 10:00 - 10:15** Coffee and Tea Break
- 10:15 - 12:00** Analysis of SANS and NR Experiments A, B, C
- 12:00 – 1:30** Lunch
- 1:30 – 2:00** Discussion of Questions Monday Lectures
- 2:00 - 2:30** Applications of NR I - polymers/biology **Sushil Satija & Susan Krueger**
- 2:30 - 6:00** Brief introduction followed by experiments SANS A, B, C or NR A, B, C
---- Coffee and Tea Break to be taken when there is a natural break
- 6:00** Recess

Wednesday, June 28

- 8:30** Bus leaves Hotel
- 9:00 – 9:30** Applications of SANS I – **Susan Krueger & Lionel Porcar**
- 9:30 – 9:45** Discussion of Questions Posed in Lectures on SANS and NR Applications
- 9:45 – 10:15** Coffee and Tea Break
- 10:15 – 12:00** Analysis of SANS and NR Experiments A, B, C
- 12:00 - 1:30** Lunch
- 1:30 - 2:00** Applications of NR II –(magnetism/electrochemistry) **Chuck Majkrzak**
- 2:00 – 5:30** Brief introduction followed by experiments SANS A, B, C or NR A, B, C
---- Coffee and Tea Break to be taken when there is a natural break
- 5:30** Recess – Bus Departs for Hotel then after 15 minute layover departs for optional trip to Strathmore (food available)
<http://www.strathmore.org/eventstickets/calendar/view.asp?id=1793>
- 7:00** Concert Starts
- 9:00** Bus leaves Strathmore to return to Hotel

Thursday, June 29

- 8:30** Bus leaves Hotel
- 9:00 –9:30** Applications of SANS II: Polymers and Biology– **Boualem Hammouda**
- 9:30 –9:45** Discussion of Questions Posed in Lectures on SANS and NR Applications
- 9:45 – 10:05** Coffee and Tea Break
- 10:05 – 11:50** Analysis of SANS and NR Experiments A, B, C
- 11:50 - 1:20** Lunch
- 1:20 – 2:00** Advanced Topics of SANS and NR – **Chuck Majkrzak**
- 2:00 – 5:30** Brief introduction followed by experiments SANS A, B, C or NR A, B, C
---- Coffee and Tea Break to be taken when there is a natural break
- 5:30 – 6:00** Students begin to prepare reports on experiments
- 6:00** Recess – return to hotel
- 7:00** Bus leaves hotel for Summer School Banquet
- 9:30** Bus leaves restaurant to return to hotel

Friday, June 30

- 8:30** Bus leaves Hotel
- 9:00-10:45** Analysis of SANS and NR Experiments A, B, C
- 10:45-12:10** Preparation of Student reports on experiments
---- Coffee and Tea available
- 12:10 - 12:30** Class Picture – **Ron Cappelletti**
- 12:30 - 1:30** Lunch
- 1:30 - 3:30** Presentation of Student Reports on Experiments
- 3:30 - 4:00** Evaluation of Summer School by Students
---- Coffee and Tea available
- 4:00** Dismissal