

NSF's ChemMatCARS Workshop on Liquid Interfaces – Group Discussions
Summary of Questions that appear on the Group Discussion Guide Forms

Form 1: *Experimental systems*

List experimental systems that will be studied – general categories and/or specific systems.

Form 2: *X-ray Methods* (use a separate form for each technique)

X-ray Technique:

Scientific goals and challenges for this technique:

Specifications (X-ray energy, beam size, Q-range and resolution):

Sample Environment (cells, holders, temperature, gas) (provided by user or facility?):

Detectors:

Rate Level of Interest in the Use of this Technique within your group:

Circle One:

- High (nearly everyone wants to use this technique)
- Medium (half want to use this technique)
- Low (Less than 20% want to use this technique)
- Not Sure

Form 3: *Sample Preparation Facilities* (list of current facilities/equipment will be provided)

Include all capabilities/equipment required to do your experiments at ChemMatCARS,
for example:

refrigerator, freezer (temperature?), weighing balance (resolution/capacity?),
fume hood, chemical storage, wet lab counter space, incubator, etc.

Be as specific as possible with regard to your needs.

Most preparation facilities will be in the ChemMatCARS Chemistry or Electronics Labs,
which are located a few tens of meters from the beamline. Is preparation space in the x-
ray hutch required? If so, how much space and for what?

Other on-site (non-X-ray) techniques required for successful experiments at
ChemMatCARS,

for example: optical microscopy, please be as specific as possible.