



January 18, 2002

Dear Colleagues:

We would like to invite you to attend a one-day workshop at Argonne National Laboratory (ANL), to be held on March 1, 2002. At the workshop, we plan to discuss the single-crystal diffractometer (working name: SCD) that is currently under design for the Spallation Neutron Source (SNS). Robert Bau of the University of Southern California will chair the workshop. Christina Hoffmann is the SNS instrument scientist who is responsible for the SCD design. For an overview of the SNS project including recent pictures of the construction site at Oak Ridge, Tennessee, please visit the SNS web site (www.sns.gov).

At this workshop, SNS staff will present an overview of SNS instrumentation development. This will be followed by an outline of the present status of the SCD conceptual design, to provide a basis for discussion and feedback from the participants. A high-priority task at the workshop will be to prepare a strong scientific case for SCD for subsequent presentation to SNS management. We also anticipate that workshop participants may wish to initiate the formation of an Instrument Advisory Team (IAT) or Instrument Development Team (IDT) for the SCD.

The SNS uses IAT/IDTs to provide a coherent means of soliciting scientific and technical input from its future user community. By defining scientific goals and priorities, the IAT/IDT will guide important design decisions for its instrument. Members are invited to workshops, which will include the organizational meeting that we are planning now and succeeding meetings that we expect will be scheduled every 12-18 months. At these workshops we normally will discuss issues concerning the current design/value-engineering of the instrument. We anticipate that presentations by selected IAT/IDT members and SNS staff will provide appropriate starting material for further discussion. The workshops will also provide an excellent opportunity to discuss ideas and concerns raised by IAT/IDT members. In addition to invitations to the workshops, members will receive regular written reports on the progress of the instrument.

In early April, Christina Hoffmann is scheduled to present an updated conceptual design of the SCD to the SNS Experimental Facilities Advisory Committee (EFAC). Upon reviewing this design, it is hoped that EFAC will recommend that the SCD be approved for the next development stage, the preparation of a detailed design. Please note, however, that funding must be secured before actual work on the detailed design can begin.

Because of your involvement in research utilizing neutron crystallography, we feel that you may be interested in the SNS SCD instrument. We therefore are inviting you to participate in the organizational workshop and to assist in the formation of the SCD IAT/IDT. A diverse and energized IAT/IDT is vital to the successful design and construction of the instrument. We also encourage you to read the attached draft conceptual design study. We are anxious to address and to include comments and concerns from the user community in the April presentation of the conceptual design to the SNS EFAC. Therefore, please convey any comments or concerns you may have in advance of the workshop to Christina Hoffmann at the address above.

Please let us know by February 1, 2002, whether you will be able to attend the March 1 workshop. Your reply should be directed to Carol Zimmer at IPNS (cmzimmer@anl.gov), who can also advise you regarding your travel plans.

We plan to convene the workshop at 9:00 AM and to conclude the working sessions by 5:30 PM, to be followed by dinner at the Argonne Guest House. We expect to be able to reimburse participants' travel expenses up to a limit of \$1,000. We will communicate additional details to you once we have received your acceptance. We hope that you will be able to join us!

Sincerely yours,
For the Workshop Organizing Committee

Professor Robert Bau, Chair
University of Southern California

Dr. Thomas Koetzle
Brookhaven National Laboratory

Dr. Christina Hoffmann, SCD Instrument Scientist
Oak Ridge National Laboratory

Dr. Arthur Schultz
Argonne National Laboratory

