



The SNS-CNS User Program: Applying for Beam Time

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Underlying principles



- **CNS and SNS will offer best-in-class instruments.**
- **An integrated CNS, SNS and CNMS user program will provide world-class technical, scientific, and logistical support to the user community.**
- **Beam time will be awarded based upon scientific excellence using an external proposal review system.**
- **Input from the SNS/HFIR Users Group, SNS and CNS advisory committees, and the scientific community will be utilized to improve the user program and facilities.**
- **Enhancements to the instrumentation will ensure continued world-class scientific capabilities.**
- **HFIR and SNS will operate with high predictability and reliability, consistent with the best facilities worldwide.**

SNS-CNS websites Gateway to facility access



- User program responsibility
- User emphasis
- Simple branching
 - User Information
 - Recent research
 - Instrument information
 - Contacts
 - News
 - Will integrate CNS/SNS

Call for Proposals




- **Goals**

- Two proposal calls per year
- Joint SNS-CNS-CNMS calls
- Director's determine number of scheduled days
- Phase-in new instruments
- Steady state beam time allocations (SNS)
 - 75% of beam time goes to General Users
 - 20% to Partner Users
 - 5% Instrument Scientist

User Proposals- Present Status



- Present MS WORD Form
 - Four pages- self contained
 - 2 page experiment details
 - Safety information
 - Statistical information
 - Uniform format for reviewers
- Similar to other North American facilities
- Migrate this to Web-based submission



NEUTRON SCATTERING RESEARCH PROPOSAL FORM

Proposal Number:
Date Received:

Submit all proposals by Email to: ns_user@ornl.gov

Title of Proposal:

Status: New
* If this is a continuation of a previous proposal, please indicate the proposal number and date received.

Principal Investigator:
Institution & Mail Address:

Co-Proposer (attach additional forms):

Desired Dates:

Have You Contacted the Instrument Manager?
Contact Name:

Suggested Proposal Reviewer:

Please Check if First-time User

Please Check if First-time User

Sample / Instrument Information

Instrument Configuration: Standard Nonstandard (please specify):

Description of Sample (Check All Applicable Fields):
 Powder Single Crystal Polycrystal Polymer Liquid
 Thin Film Other (please describe):

Chemical Formula:

Size: Weight: Mosaic (if applicable): No. of Samples:

Crystallographic Information - Space Group (if applicable):

a = (Å) alpha = (°)
b = (Å) beta = (°)
c = (Å) gamma = (°)

Range of Momentum Transfer (Å⁻¹):

Range of Energy Transfer (meV):

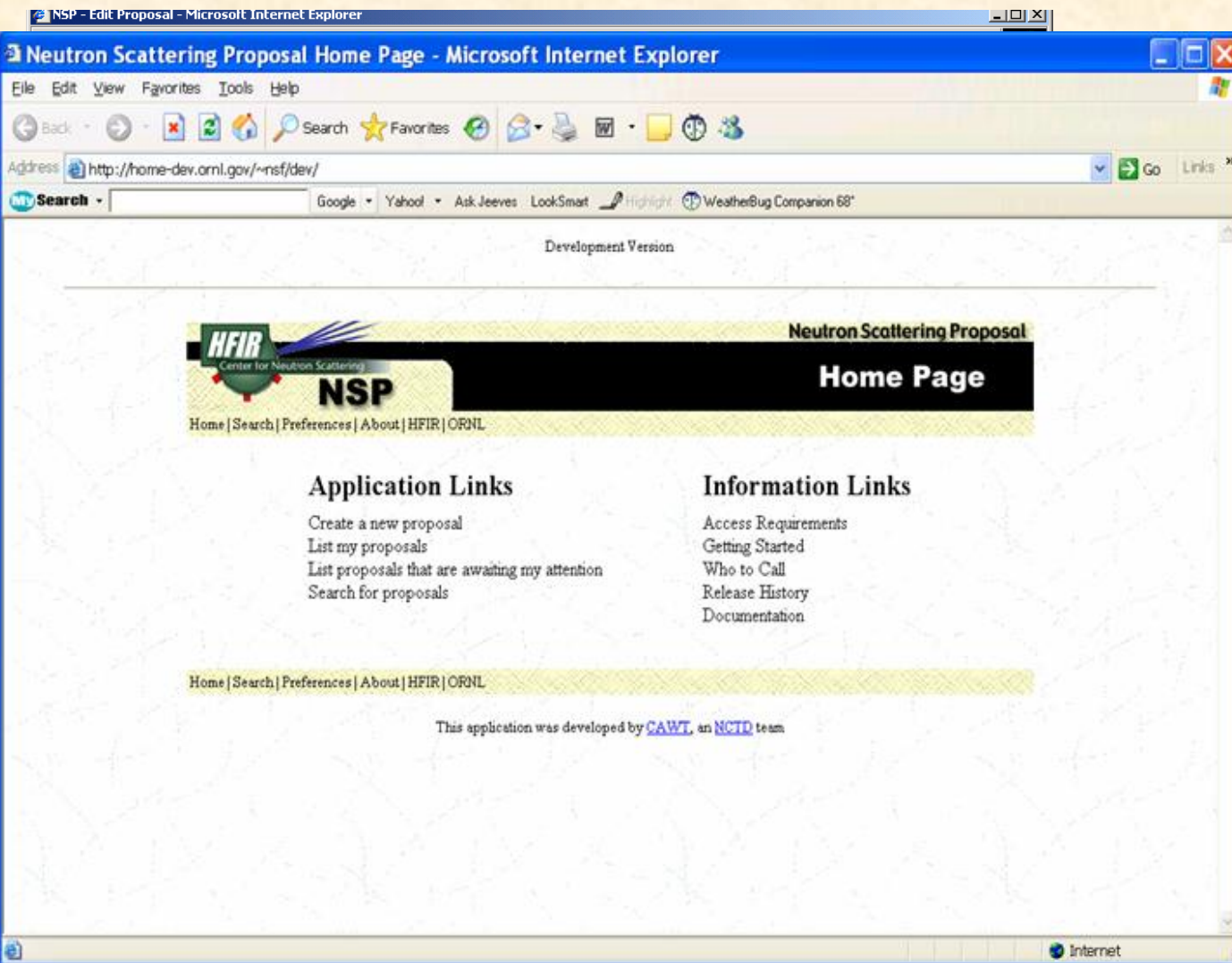
Web based submission



- **SNS-CNS-CNMS web-based system**
- **User friendly web submission with data stored in ORNL ORACLE database**
- **Sharable by all user facilities**
- **External authentication: Implemented Nov. '05**
- **Debug web-based version in 2005**



New CNS Neutron Scattering Proposal System



- Ease of use
- External authentication-signon
- Searchable information
- Reusable information
- Multi-facility use-one stop shopping

Peer-review: Proposal Review Committee (PRC)



- Facility staff feasibility and beamtime requirements provided by scientific staff
- Proposal Review Committees (PRCs) appointed by Facility Directors with input from:
 - User community
 - Facility management
- PRC's provide rank and beam time allocations of General User beamtime
- PRC will also provide feedback to the investigators
- PRC will comprise predominantly external scientists with facility scientific advisors



First CNS Proposal Review Committee

Evaluation criteria



- **International Union of Pure and Applied Physics recommendations:**
 - Scientific merit
 - Technical feasibility
 - Capability of the experimental group
 - Availability of the resources required
- **Needs for special equipment plus satisfy safety and environmental concerns**
- **Encourage and support first time users/students**

Scheduling



- **Instrument scientists schedule**
- **Coordinate instruments, sample environment and CNMS resources**
- **User office notifies users**
- **Goal: Schedule entire time between calls**

Ready for experiment!!! (almost)



OAK RIDGE NATIONAL LABORATORY
U. S. DEPARTMENT OF ENERGY



CNS Instrument Installation Schedule

