

# Spallation Neutron Source Data and Analysis Portal

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[http://www.csm.ornl.gov/Internships/rams\\_06/abstracts/j\\_black.pdf](http://www.csm.ornl.gov/Internships/rams_06/abstracts/j_black.pdf)

## Abstract

The Spallation Neutron Source (SNS), upon completion, will be the leading neutron research facility in the world. The SNS will be open to researchers, scientists, and engineers from universities, industries, and other government laboratories throughout the United States and the world. For the SNS to be readily available to such a wide user community, an extensive online User Workspace: the SNS Data and Analysis Portal, is required. The focus of this project is the "Supplemental Data" section of the portal. This section displays the documentation (basic information concerning SNS and the portal), publications (published experiments and research from SNS), SNS's proposal system (proposals for beam time can be sent electronically or by mail), electronic notebooks (private notebooks, project notebooks, and instrument logs), and SNS's software repository (data analysis software created by the SNS software team). The software for "Supplemental Data" is written using AJAX, a combination of DHTML (dynamic hyper-text markup language), CSS (cascading style sheets), and JavaScript. The software interface maintains the same appearance and functionality of the production portal. The present version does not distinguish between different users, but the final version will do so. The final version also will be able to store and allow visualization of scientific data, document publications and completed research, and provide additional computer interface services for the users.

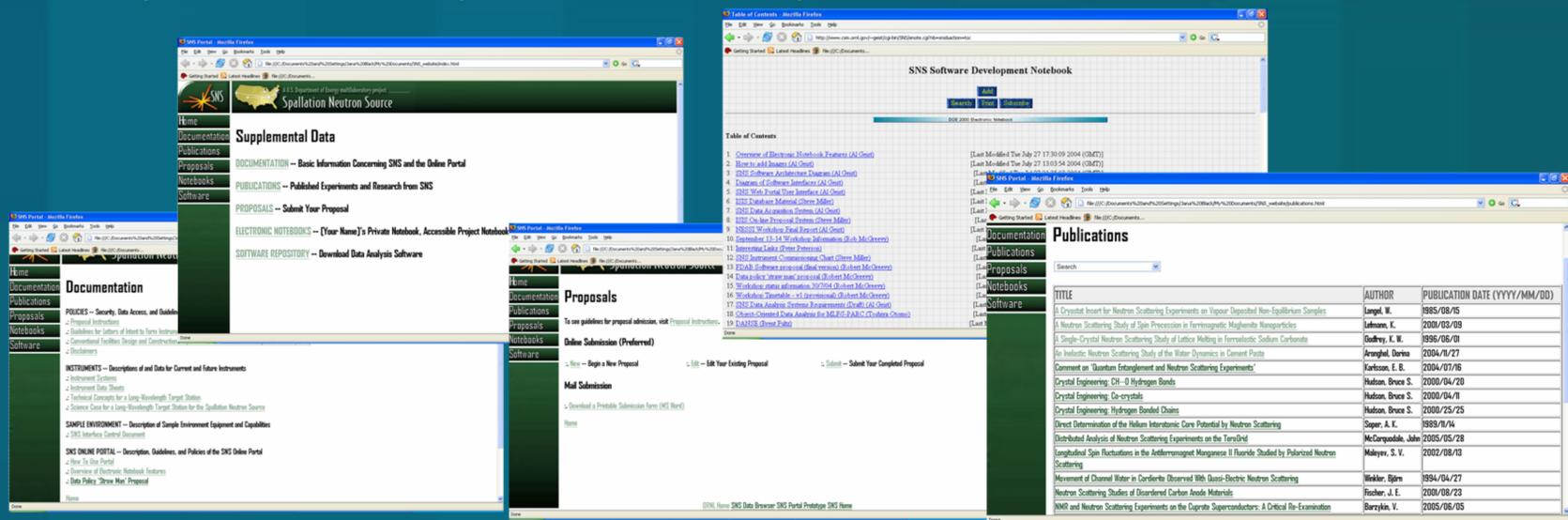


Fig. 1. Demo Web Site: Documentation, Home Page, Proposals, Electronic Notebooks, Publications

## Goals

## Layout

- Design a convenient layout to organize SNS's **Documentation**, **Publications**, **Proposal System**, **Electronic Notebooks**, and **Software Repository**
- Develop a demo website using HTML, CSS, and JavaScript (AJAX) to demonstrate the above data

- **Documentation** – Divided into documentation of Policies, Instruments, Sample Environment, and Portal
- **Publications and Software Repository** – Libraries that can be sorted and searched by category
- **Proposals** – Apply for beam-time electronically or by mail
- **Electronic Notebooks** – Organized into private notebooks, project notebooks, and instrument logs

```
document.html PUBLIC "-//W3C//DTD HTML 4.01 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"
:html xmlns="http://www.w3.org/1999/xhtml"
:head
:body leftmargin="0" margin="0" topmargin="0"
:table border="1" style="width:100%; border-collapse: collapse;">
|  |
| --- |
| Documentation   - Documentation - Proposals - Electronic Notebooks - Software  Supplemental Data  DOCUMENTATION – Basic Information Concerning SNS and the Online Portal  PUBLICATIONS – Published Experiments and Research from SNS  PROPOSALS – Submit Your Proposal  ELECTRONIC NOTEBOOKS – [Your Name]'s Private Notebook, Accessible Project Notebook  SOFTWARE REPOSITORY – Download Data Analysis Software  Proposals  Proposals  Electronic Notebooks  Software |

```

Fig. 2. Source Code for Demo Documentation Web Page (HTML).

```
function sortable_init() {
// Find all tables with class sortable and make them sortable
if (!document.getElementById("sortable")) return;
tbl = document.getElementsByTagName("table");
for (ti=0; ti<tbl.length; ti++) {
if (tbl[ti].className.indexOf("sortable") != -1) {
tbl[ti].tbl = new Array();
tbl[ti].tbl.length = tbl[ti].rows.length;
tbl[ti].tbl[0] = new Array();
tbl[ti].tbl[0].length = tbl[ti].rows[0].length;
tbl[ti].tbl[0][0] = "Sort by";
tbl[ti].tbl[0][1] = "Name";
tbl[ti].tbl[0][2] = "Date";
tbl[ti].tbl[0][3] = "Author";
tbl[ti].tbl[0][4] = "Title";
tbl[ti].tbl[0][5] = "Abstract";
tbl[ti].tbl[0][6] = "Keywords";
tbl[ti].tbl[0][7] = "References";
tbl[ti].tbl[0][8] = "Comments";
tbl[ti].tbl[0][9] = "Links";
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