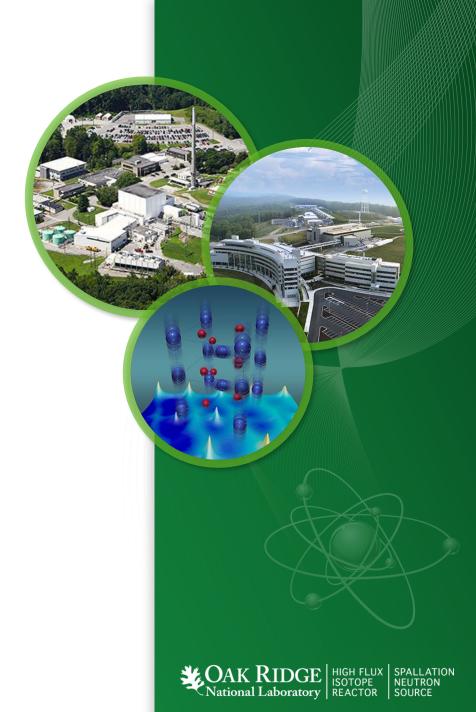
Data Management, Workflows, & Scientific Information Systems

Shelly Ren

March 24, 2017

Neutron Day Seminar Series: Data and Instrument Software



Dear NScD staff,

The Neutron Sciences Directorate Oracle systems will be unavailable for maintenance during the following dates and times:

Tuesday, Jan 24th, from 11 a.m. to 3 p.m.: Accelerator PROD database

Systems impacted: Accelerator Operations Administration/Bypass Request,
Diagnostics/Physics applications, Document Number Reservation, Electronic Logbook,
eMod, ICS NetReg, ISDD Portal, Inventory Control, MPS Trips, MPS Audits, PSSO Wireless
Handheld Meter Readings Entry, PSSO Meter Readings Report, Power Supply configuration
generation, PV Logger, RF Cavity trips, SCORE, SNS channels/status, SNS Service Request
Web Interface, SNS Work Order Closeout, and Web reports including ROCS.

Science

- Monday, Jan 30th, from 9 a.m. to 1 p.m.: SCPROD database operations

 Systems impacted: ICAT, Instrument alarm application, Channel Archiver, Legacy translation monitor, and SNS instrument monitor.
- Tuesday, Jan 31st, from 1 p.m. to 5 p.m.: XPROD and COTS databases

 Systems impacted: IPTS including User Survey, ITEMS, Express, PuSH, SAC, IHC Operations, IHC Activities, and XWHOS, IPTS information on Guest Port, Sample Environment equipment report, DataStream, ProjectWise, and Primavera.

If you have any questions or concerns, please contact us at sisupport@ornl.gov.

Yours,

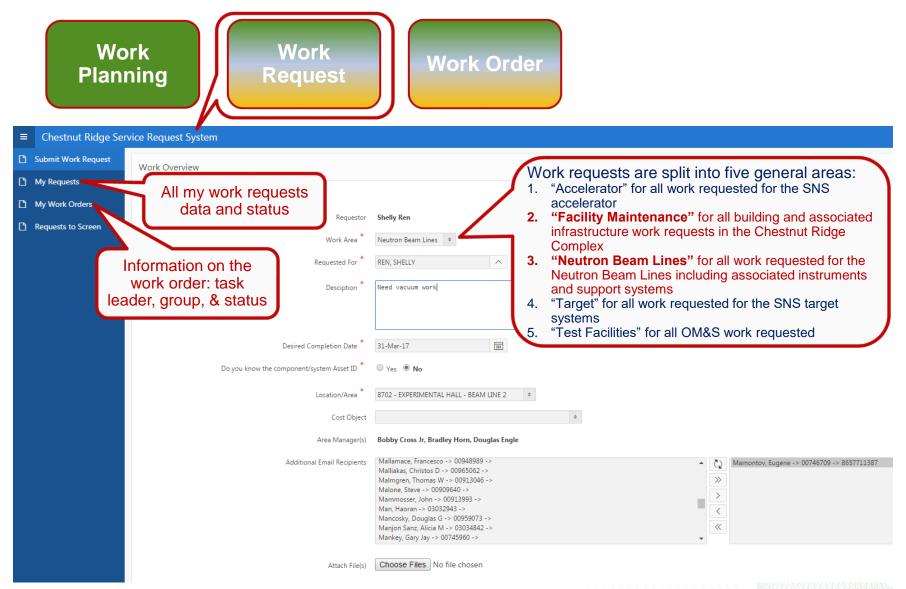
Scientific Information Systems Team

User Program; Asset, document management

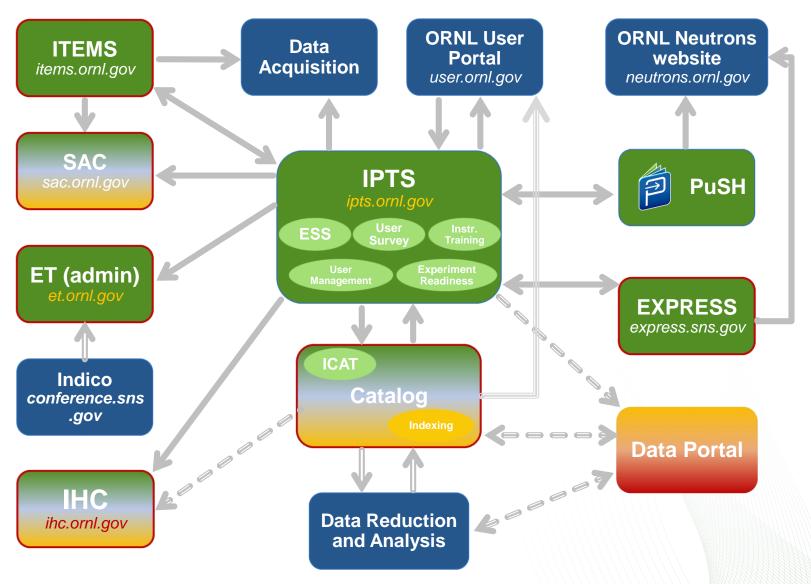
Accelerator

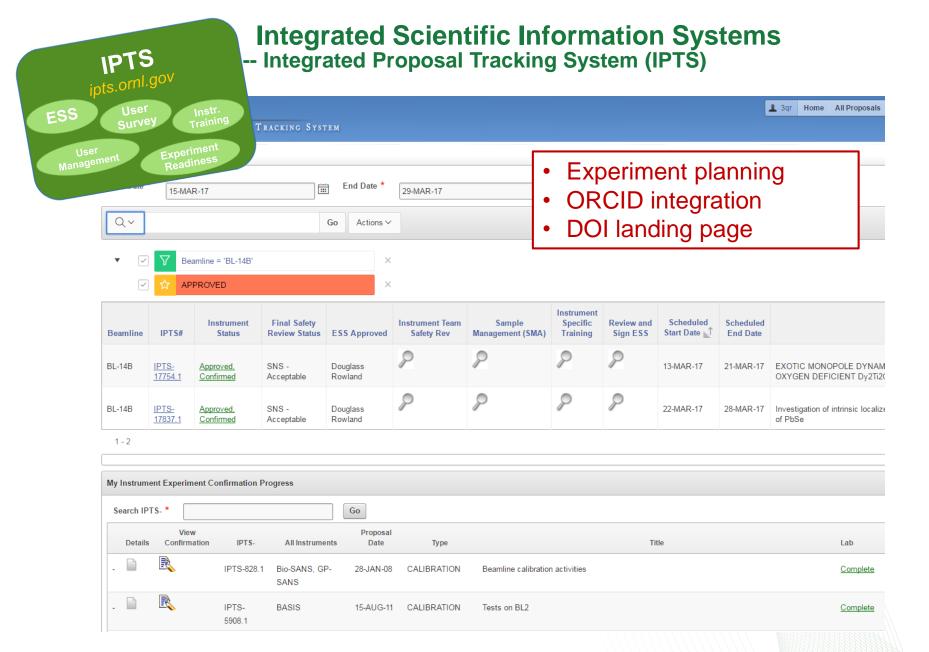


Improved Work Control System



Integrated Scientific Information Systems







Integrated Scientific Information Systems -- Experiment Resource Scheduling System (EXPRESS)

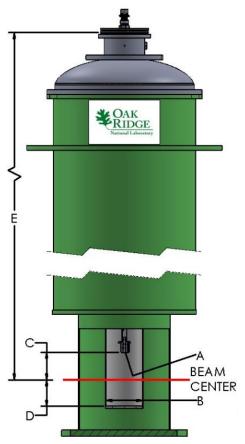
Sciences

FUTURE FOR USERS ABOUT SCIENCE INSTRUMENTS & SUPPORT PUBLICATIONS NEWS CAREERS

CRYO-A

Oxford Instruments Variox

Temp Range: 1.5 to 300K





	Description	Value	Units
A	Interface Connection	M8	
В	Bore Size Diameter	50	mm
С	Distance Interface to Beam Center	2.44	in
D	Beam Center to Sample Space Bottom	1.92	in
E	Distance Stick Flange to Beam Center	46	in

Sample Environment		
Overview		
Team & Contacts		
Equipment		
Sample Mounting		
Procedures		
User Supplied Equipment		
Useful Links		

This item is available for use at the following:

Facility:

HFIR

Associated Instruments:

CG-1A, CG-2, HB-1, HB-1A, HB-2A, HB-2C, HB-2D, HB-3

Can be used with the following:

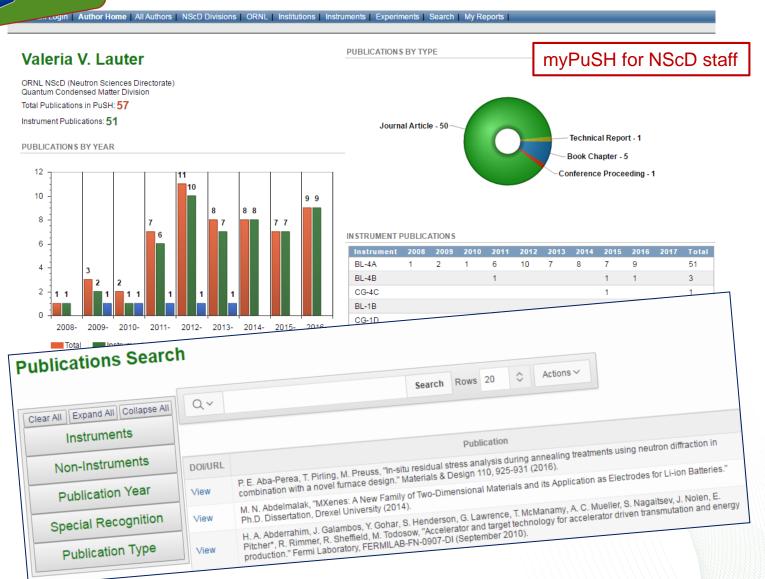
Associated Resources:

ULT-B, ULT-G, ULT-K





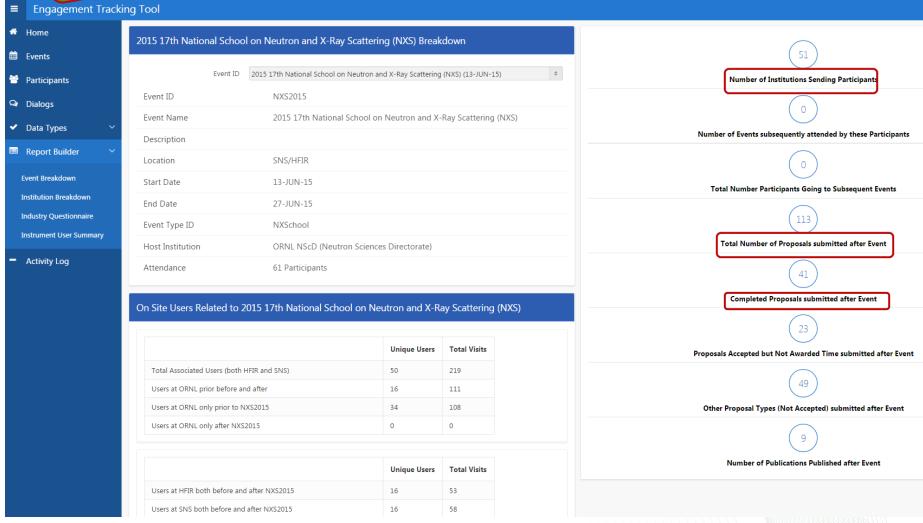
Integrated Scientific Information Systems -- Publication of SNS and HFIR (PuSH)



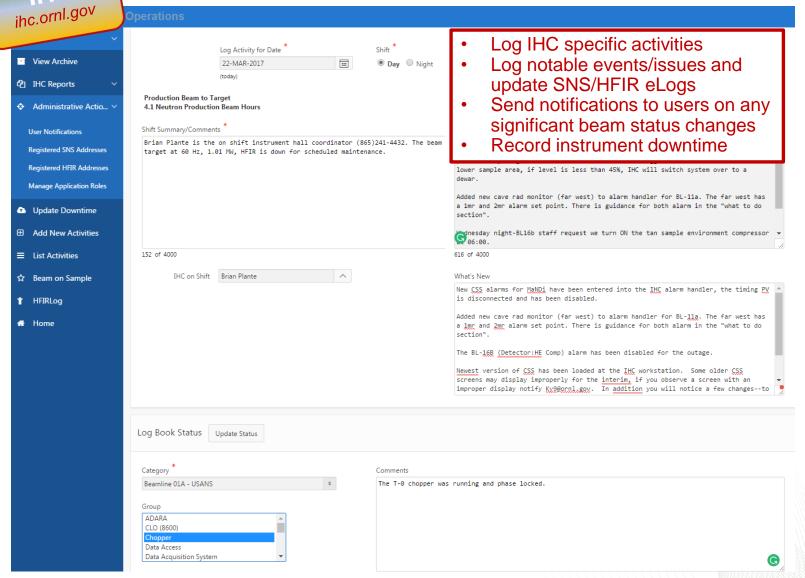


Integrated Scientific Information Systems

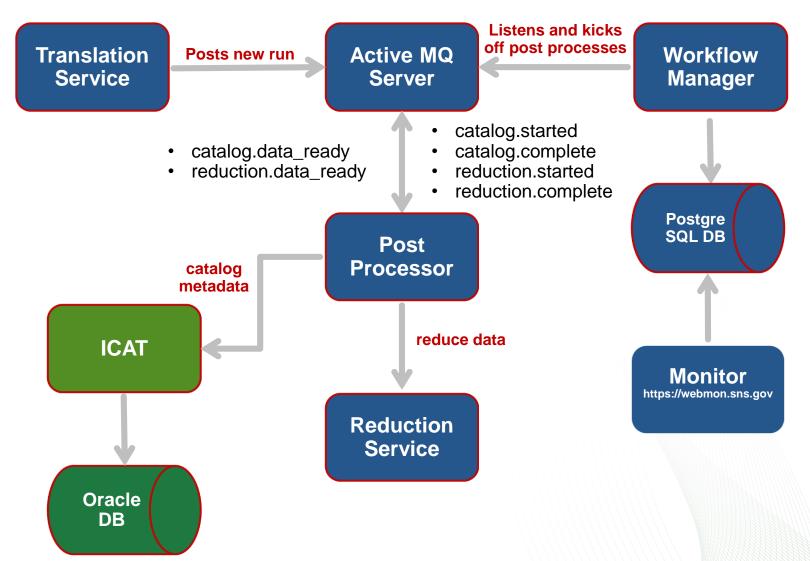
-- Engagement Tracking Tool (ET)



Integrated Scientific Information Systems -- Instrument Hall Coordinator System (IHC)

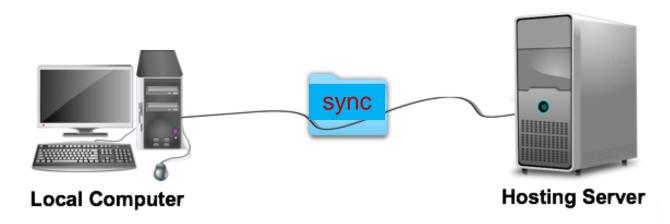


Data Management and Workflows @ sns



Data Management and Workflows -- Data archiving tool

- Create IPTS and shared directories for scheduled experiments
- Reset permissions for given instrument & IPTS



- Archive data for HFIR instruments by syncing files from "source" to "destination" directories
- Apply ACL / permissions set
- Catalog metadata per instrument's "catalog policy"



Data Management and Workflows

-- Catalog System

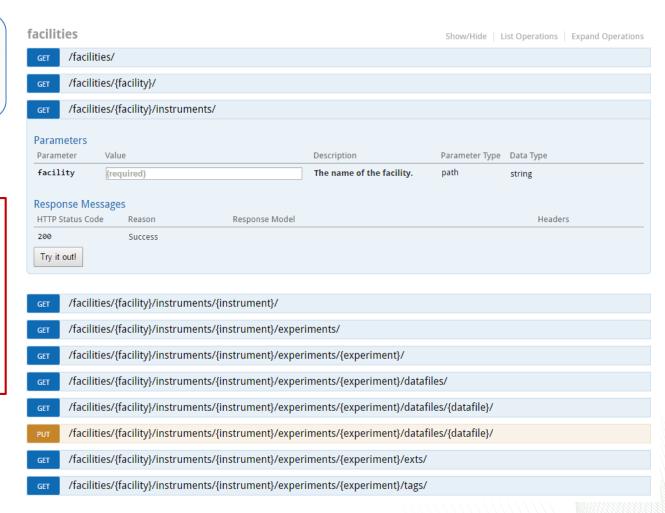
ORNL Data Catalog API

API to store and query ORNL datafile metadata.

Web services designed for NDAV applications

New services:

- Provide metadata for portal users
- İndex metadata to enable free text search





Data Management, Workflows, & Scientific Information Systems -- Initiatives, ideas and path forward

- Usability study and expert evaluation of web applications
- Data Science Analysis/Analytics/Intelligence
 - Equipment usage (i.e. sample environment)
 - Publications / beam line
 - Institutions representation and productivity
- A new data portal
 - Globus API for data transfer
 - Remote jobs
 - Metadata annotation
 - DOI on demand for PIs to publish datasets



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