



Nuclear Science User Facilities

Nuclear Energy Infrastructure Database (NEID)

New Version

Jonathan Kirkham Scientific Support Professional

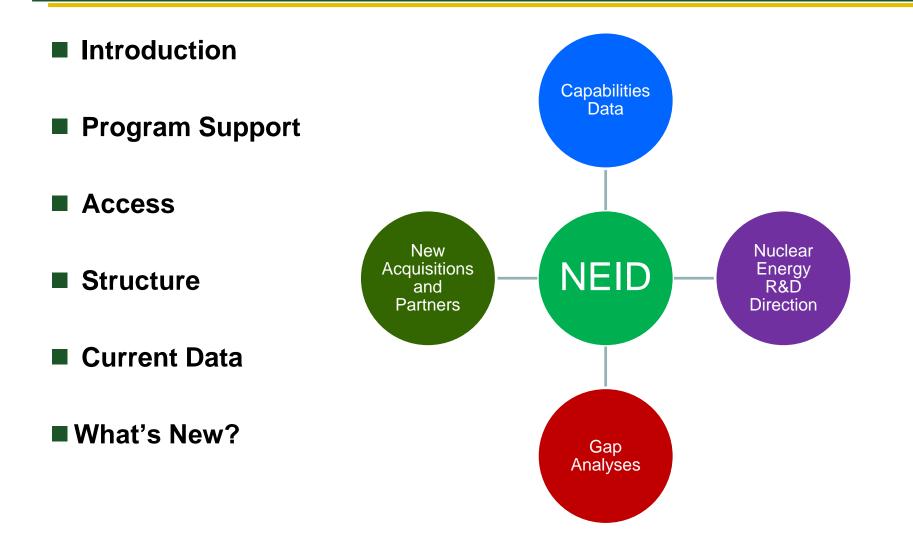


NSUF Annual Review DOE Headquarters November 1, 2016



Outline







Introduction



Nuclear Energy

Resource for a variety of the nuclear energy groups:

- Nuclear Energy Research Community
 - Aiding their search for capabilities on current or future projects
- Office of Nuclear Energy
 - Aiding in infrastructure investment decisions
- NSUF Technical Leads
 - Aiding in the search for the best and most cost effective capability available





Program Support



Nuclear Energy

NEID provides support for the following areas:

- Gap Analysis Report
- Nuclear Energy Request For Information (RFI)
- Nuclear Energy Infrastructure Funding Opportunity Announcements (FOA)









• Website:

• nsuf-infrastructure.inl.gov/

Access

■ NSUF Main Page:

• nsuf.inl.gov/









Access



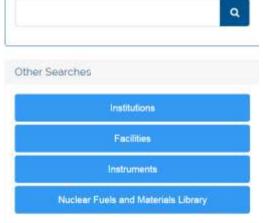


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0° Admin	*	Nuclear Energy Infrastructure Database (NEID)	٩						
III ⊔ists		Use this management program to find facilities or instrumentation at national laboratories, universities or industrial R&D facilities.	Other Searches						

Nuclear Fuels and Materials Library (NFML)

Use this management program to access irradiated materials from NSUF experiments and other legacy sources. The library houses available specimens for awarded NSUF-1/NSUF-2 CINR FOA proposals and awarded NSUF Rapid Turnaround proposals.

Structure









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Structure – Institution



Nuclear Energy

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Structure – Facility



Nuclear Energy

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Structure – Instrument



Nuclear Energy

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🕻 Admin	- 63	Abbreviation	LEAP	
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		Radiological Limit	<tānzitir 30cm<="" td="" 🤬=""><td></td></tānzitir>	
		Sample Encapsulation	= 70 dpm/100 cm2 67 and 7 dpm/100cm2 a	
		Core Functions	The LEAP 4000X HETM is a high performance 30 alton probe microscope which provides nano-scale surface, built and interfacial materials analysis of simple and complex structures with atom by atom conditionation and accurate spatial positioning.	
		Unique Functions	Atom Probe Tomography ATP	
		Primary Capability	high voltage pute mass resolution. Field of view exceeding 150 nm.	
		Secondary Capability	Local electrode technology. High spatial resolution and sensitivity	
		Tertiary Capability	Automatically focused voltage and UV laser pulsing with small spotenable improved mass resolution, befor yield from poorly conductive samples, and best in class data acquisition rates.	
		NE Use Percentage		
		NE Objectives	Support the current flexit of current numbers Support diversionment of advanced nearbors Develop sustainable fail system	
		Utilization Hours	4000	
		Point Of Costact	Yaglao Wu	
		Email	/adapan@polestate.edu	
		Address 1	Center for Advanced Energy Bluities	
		Address 2	985 University Drive	
		City	ktaho Falle	
		State	idaho 83401	
		Zip Web Site URL	ssauri http://www.cameca.com/instruments-korvese.auchile.ap-hr.appi	
		Data Sources	Facility Site web page	
		Date Of Data	January 1, 2014	
		Resolution NM	150 Parent de la companya de la Alemania de la companya	
		Manufacturer	CAMECA Instruments Inc. (Formerly Imago Scientific Instruments) LEAP 4000X HR	
		Model Owner	LEAP 40-00 kmi	
		Value 1	Large angle reflection (LAR) design is optimized for very high mass resolution while mandaming a wide field of view	
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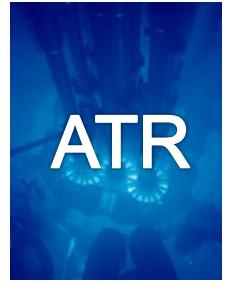




Data as of September 2016

Institutions	Facilities	Instruments
127	465	963



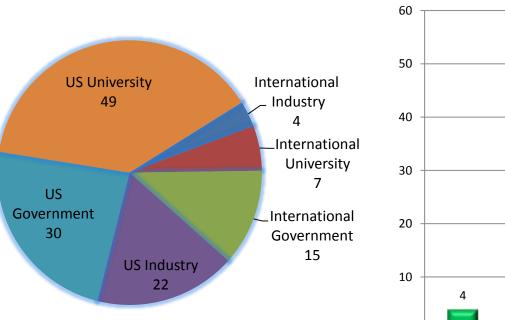




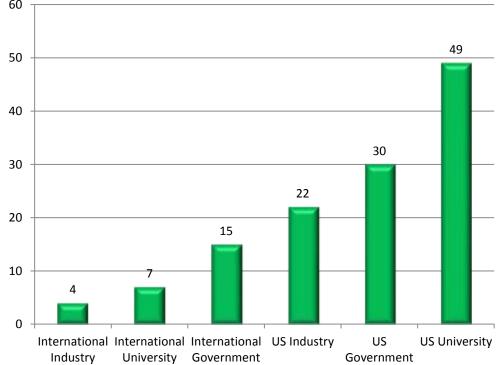


Nuclear Energy





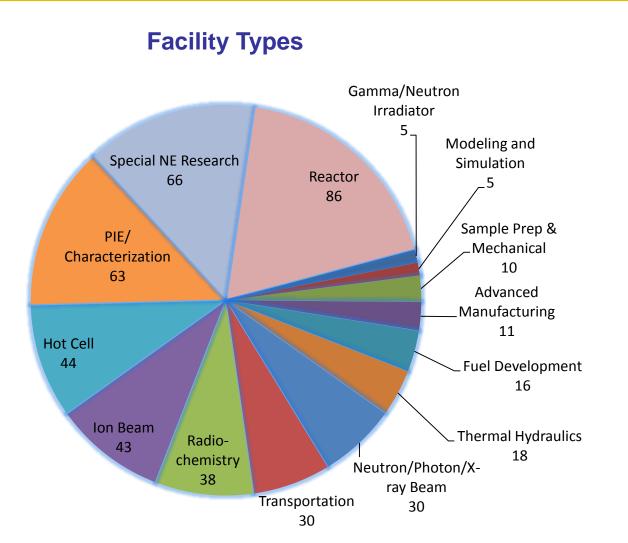
Institutions







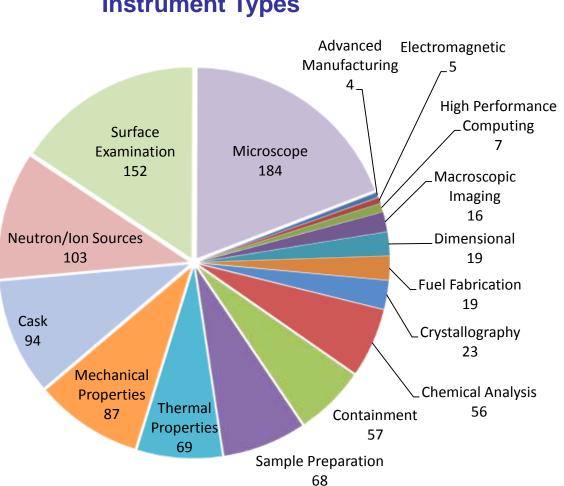






Nuclear Energy





Instrument Types



What's New?



Nuclear Energy

All new look, feel, and navigation properties

Editing capabilities for institution officials and facility owners

- Users can now edit their own data (pending our approval)
- New coordinate map through Google Maps

User profiles are all connected throughout all NSUF databases

• Users can sign up through NSUF main webpage instead of the NEID page

Ability to save a list of your favorite facilities or instruments for quicker access

