



American Nuclear Society

ANS Accelerators of Northern California

What is the ANS **ACCELERATORS**
PROGRAM  ?

ACCELERATORS PROGRAM

Local Chapters

Nuclear science clubs at junior high and high schools. After launch, ANS supports with the coordination of local activities, presentations from nuclear professionals, visits to nuclear sites, etc. While chapters differ in program activities depending on locale, all are focused on learning about nuclear science and technology directly from nuclear professionals and engaging in ANS programming and resources.

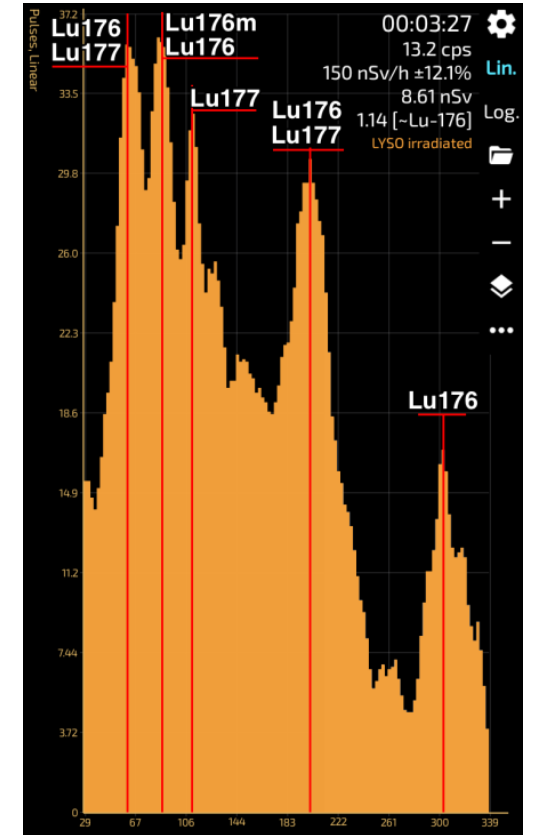
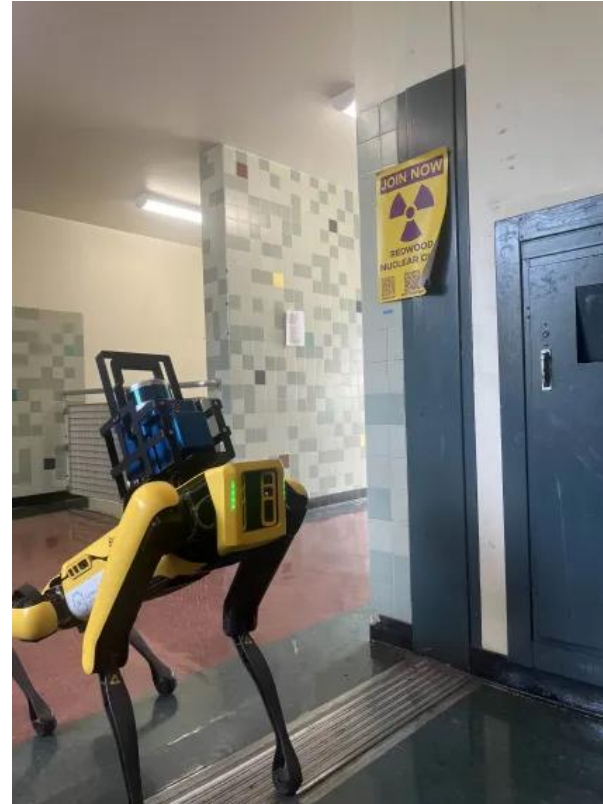
National Chapter

The national chapter allows any junior high or high school student in the country to join a virtual cohort of like-minded students. Members have access to monthly virtual meetings that feature presentations and activities, virtual talks from nuclear industry professionals, mentorship and networking opportunities, etc.

Rex and Lillian



ANS Accelerators of Northern California



Farnsworth–Hirsch Fusor Project

BOM												
Tr	Item name	Tr	Item description (purpose/use)	Link	#	Price	#	Quantity	Status	Tr	Notes	UE questions
	EStop		disable power to contactor	https://www.mouser.com/ProductDetail/TE-Conne		25.87		1	Arrived		NO/NC	
	Contactor		control current to fusor	https://www.mouser.com/ProductDetail/Hartland-i		29.48		1	Arrived		NO?	
	Selector		Stand	https://www.mouser.com/ProductDetail/EA0/704		23.01		2	Arrived		Notes	
	KF50 → KF16 Cross (Reducer Cross)		Stainless Steel 4-way cross, suitable	https://www.ebay.com/itm/394680512034?_skw=		28.96		1	Arrived		Model	
	KF50 → KF25 Conical Reducer		Stainless Steel conical reducer, KF50	https://www.ebay.com/itm/275398018355?_skw=		22.9		1	Arrived		Model	No 50-25, only 25-50. Tha
	KF40 to KF50 Reducer		For HV Feedthrough to Fit	https://www.ebay.com/itm/275398018355?_skw=		22.9		1	Arrived		Model	
	KF-40 Feedthrough		HV Feedthrough	https://mpfpi.com/shop/power-feedthroughs/pow		266.23		1	Arrived		Model	
	KF50 Viewport		Vacuum viewport (borosilicate), KF50	https://www.ebay.com/itm/314790356190?_skw=		139		1	Arrived		Model	
	KF16 Metering Valve		Needle/metre valve for gas metering	https://www.ebay.com/itm/396889005347?_skw=		74		1	Ordered		Notes	
	KF16 Tee Fitting		3-way KF16 tee for gauge or branchi	https://www.ebay.com/itm/402477881622?_skw=		22.8		1	Arrived		Model	out of stock
	KF16 Butterfly Valve		Manual throttle/valve for vacuum cc	https://www.amazon.com/EASTVAC-KF16-vacuurr		47.5		1	Arrived		Notes	
	KF16 Bellows (24")		Flexible stainless bellows, vacuum-r	https://www.ebay.com/itm/225859411655?_skw=		44.89		1	Arrived		Notes	
	KF16 Clamps & Centering Rings (qty 6)		Quick flange clamps + centering rin	https://www.ebay.com/itm/383473701099?_skw=		10.99		6	Arrived		Notes	
	KF50 Clamps & Centering Rings (qty 2)		KF50 quick flange hardware	https://www.ebay.com/itm/383773674659?_skw=		25.99		2	Arrived		Notes	
	KF25 Clamp & Centering Ring		KF25 flange hardware	https://www.ebay.com/itm/372745882559?_skw=		15.68		1	Arrived		Notes	out of stock
	KF50 Blank Flanges (2)		Blank-off flange, KF50	https://www.ebay.com/itm/225869071760?_skw=		13.79		2	Arrived		Model	
	KF16 Blank Flanges (2)		Blank-off flange, KF16	https://www.ebay.com/itm/225869071760?_skw=		8.27		2	Arrived		Model	
	KF25 Blank Flange (1)		Blank-off flange, KF25	https://www.ebay.com/itm/225869071760?_skw=		6.43		1	Arrived		Model	
	Transformer		Transformer that Rex purchased			400		##	Arrived		Notes	
	Vacuum Pump		Vacuum Pump that Rex purchased (225		##	Arrived		Notes	
	Item name		Item description (purpose/use)			##		##			Notes	
	Item name		Item description (purpose/use)			##		##			Notes	
	Variac		Item description (purpose/use)	https://voltec.com/variacc-5kva-variable-transformer		184.95		##	Arrived		Notes	
	Item name		Item description (purpose/use)			##		##			Notes	
	*Vacuum Relief Valve		relieves pressure from			##		##			Notes	
	Item name		Item description (purpose/use)			##		##			Notes	
	Hookup 18awg black		Item description (purpose/use)	https://www.mouser.com/ProductDetail/TE-Conne		1.74		20	Arrived		Notes	
	Hookup 18awg blue		Item description (purpose/use)	https://www.mouser.com/ProductDetail/TE-Conne		1.69		10	Arrived		Notes	
	Hookup 18awg white		Item description (purpose/use)	https://www.mouser.com/ProductDetail/TE-Conne		1.57		10	Arrived		Notes	
	Hookup 18awg red		Item description (purpose/use)	https://www.mouser.com/ProductDetail/TE-Conne		1.7		10	Arrived		Notes	